

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                     |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|
| <b>Product Name</b>          | Recombinant Human TIGIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SDS-PAGE gel  |                                                                                     |
| <b>Synonym(s)</b>            | VSIG9; VSTM3; WUCAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1             | 2                                                                                   |
| <b>Quantity</b>              | 50 µg, 500 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | KDa           | M                                                                                   |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 116           |  |
| <b>Class Type</b>            | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 66.2          |                                                                                     |
| <b>Molecular weight</b>      | 19.7 kDa (due to glycosylation), 14.5 kDa (predicted)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 45.0          |                                                                                     |
| <b>Purity</b>                | ≥ 90% by SDS-PAGE, ≥ 90% by SEC-HPLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 35.0          |                                                                                     |
| <b>Tag</b>                   | C-terminal polyhistidine tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 25.0          |                                                                                     |
| <b>Expression Source</b>     | HEK293 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 18.4          |                                                                                     |
| <b>Uniprot Accession #</b>   | Q495A1-1, Met1-Pro141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14.4          |                                                                                     |
| <b>Application</b>           | Western Blotting, Functional Studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 – MW Marker |                                                                                     |
| <b>Endotoxin</b>             | <1.0 EU/µg protein as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2 – TIGIT     |                                                                                     |
| <b>Formulation</b>           | Lyophilized from sterile PBS, pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |                                                                                     |
| <b>Storage and Stability</b> | Stable for 12 months at -80°C, Avoid freeze/thaw cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                     |
| <b>Description</b>           | TIGIT (T cell immunoreceptor with Ig and ITIM domains) is an immune checkpoint protein expressed on T cells and natural killer (NK) cells. It functions as an inhibitory receptor that regulates immune responses by binding to ligands such as CD155 (PVR) and CD112 on antigen-presenting cells and tumor cells. Through intracellular ITIM and ITT-like motifs, TIGIT dampens T cell activation, reduces cytokine production, and limits cytotoxic activity. By maintaining immune homeostasis, TIGIT helps prevent excessive inflammation, but its overexpression in cancer can contribute to immune evasion, making it an important target in immunotherapy research. |               |                                                                                     |
| <b>Reference</b>             | Ota T., et al.,(2004), Complete sequencing and characterization of 21,243 full-length human cDNAs. Nat. Genet. 36:40-45.<br>Bechtel S., et al., (2007), The full-ORF clone resource of the German cDNA consortium.BMC Genomics 8:399-399.<br>Yu X., Harden K., et al.,(2009), The surface protein TIGIT suppresses T cell activation by promoting the generation of mature immunoregulatory dendritic cells. Nat. Immunol.                                                                                                                                                                                                                                                 |               |                                                                                     |

## Related products:

| <b>Product Name</b>          | <b>Catalog #</b> | <b>Size</b> |
|------------------------------|------------------|-------------|
| Recombinant Human PD-L1      | 237351           | 100 ug      |
| Recombinant Human CD40       | 232340           | 100 ug      |
| Recombinant Human CD40L      | 2323405          | 100 ug      |
| Recombinant Human CD70       | 232370           | 100 ug      |
| Recombinant Human CD155      | 2323155          | 100 ug      |
| Recombinant Human SIRP-alpha | 2374772          | 100 ug      |
| Recombinant Human OX40       | 236940           | 100 ug      |
| Recombinant Human OX40L      | 2369405          | 100 ug      |

|                                                     |                |                             |
|-----------------------------------------------------|----------------|-----------------------------|
|                                                     |                |                             |
| DNA Polymerase Theta Activity Assay Kit             | 362101         | 96 reactions                |
| DNA Polymerase Theta-N-Helicase Domain              | 7657643        | 20 ug, 100 ug               |
| DNA Polymerase Theta-C terminal Domain              | 7657283        | 20 ug, 100 ug, 1 mg         |
| DNA Polymerase Theta Full Length protein            | 7657385        | 10 ug, 50 ug                |
|                                                     |                |                             |
| T7 RNA polymerase                                   | 777627         | 5000 U, 25000U, 100000U     |
| T7 High Yield RNA Synthesis Kit                     | 777627-RK      | 25 rxns, 50 rxns, 100 rxns  |
|                                                     |                |                             |
| Recombinant Mouse Leukemia Inhibitory Factor (mLIF) | 11-0001        | 10 ug, 100 ug               |
|                                                     |                |                             |
| Recombinant Human LIF                               | 12-0002        | 10 ug, 100 ug, 1 mg         |
|                                                     |                |                             |
| Recombinant Human LIF, Animal-Free                  | 12-0002AFR     | 10 ug, 100 ug, 1 mg         |
|                                                     |                |                             |
| Recombinant Human FGF-basic, Carrier-free           | 12-0005CFR     | 50 ug, 100 ug, 500 ug, 1 mg |
|                                                     |                |                             |
| Kras Wild Type (WT), GST-tag                        | 5727-4121G     | 50 µg, 100 µg               |
| Kras WT, GST-tag, GDP Loaded                        | 5727-WTG-G     | 50 µg, 100 µg               |
| Kras WT, GST-tag, GppNHp loaded                     | 5727-WTG-GP    | 50 µg, 100 µg               |
|                                                     |                |                             |
| Kras G12C, GST-tag                                  | 5727-4122G     | 50 µg, 100 µg               |
| Kras G12C, GST-tag, GDP Loaded                      | 5727-4122G -G  | 50 µg, 100 µg               |
| Kras G12C, GST-tag, GppNHp loaded                   | 5727-4122G -GP | 50 µg, 100 µg               |
|                                                     |                |                             |
| Kras G12C Nucleotide Exchange Assay Kit             | 5727-4122NK    | 384 reactions               |
|                                                     |                |                             |
| Kras G12C – cRAF Binding Assay Kit                  | 5727-4122BK    | 384 reactions               |
|                                                     |                |                             |
| Human RBD-RAF1, N-His tag, C-FLAG tag               | 7237231        | 50 µg, 100 µg               |
|                                                     |                |                             |
| Human SOS1, No Tag                                  | 7671           | 50 µg, 100 µg               |
| Human SOS1, His-Avi-Tag                             | 7671HA         | 50 µg, 100 µg               |
|                                                     |                |                             |

This product is for research use only and not for diagnostic or therapeutic use.