

Anti-mouse TIGIT Monoclonal Antibody (Clone: 1F4) | PA007280.m2a

Catalog No.: PA007280.m2a | Isotype: Mouse IgG2a Kappa | In vivo Grade

Recombinant mouse IgG2a isotype controls and Recombinant human IgG1 isotype controls are available. Condition of sample preparation and optimal sample dilution should be determined experimentally by the investigator.

Product Specifications

|                     |                                                                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No.         | PA007280.m2a                                                                                                                                                                             |
| Product Name        | In vivo Grade Recombinant Anti-mouse TIGIT Monoclonal Antibody (Clone: 1F4), Mouse IgG2a Kappa                                                                                           |
| Clone & Isotype     | 1F4.   Mouse IgG2a kappa.                                                                                                                                                                |
| Synonyms            | VSIG9, VSTM3, WUCAM, T-cell immunoreceptor with Ig and ITIM domains                                                                                                                      |
| Applications        | ELISA, flow cytometry, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways affected by the mouse TIGIT protein. |
| Immunogen           | The original rat hybridoma (clone name: RMP1-14) was generated by immunizing Sprague Dawley rats with mouse PD-1-transfected BHK cells and using a P3U1 myeloma as the fusion partner.   |
| Purity & Endotoxin  | >95% by SDS-PAGE under reducing conditions and HPLC   < 1 EU per 1 mg of the protein by the LAL method.                                                                                  |
| Formulation         | 0.2 uM filtered solution, pH 7.4, no stabilizers or preservatives.                                                                                                                       |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month from date of receipt, 2 to 8°C as supplied.        |

Biological Description & Research Applications

Recombinant mouse IgG2a Monoclonal Antibody.

The 1F4 antibody binds to the TIGIT protein (WUCAM, Vstm3 or VSIG9), a novel immune checkpoint receptor with inhibitory function. TIGIT is expressed on T cells and natural killer (NK) cells, and several human cancers, including melanoma, NSCLC, and colorectal cancer. Similar to PD-1, the TIGIT receptor limits antitumor immune response in cancer.

Ordering & Technical Support

For custom volume ordering or inquiries, please visit the product webpage or contact our support team:

- **Product Webpage:** <https://www.ushelf.com/anti-mouse-tigit-monoclonal-antibody-clone-1f4-pa007280-m2a/>
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** [message@sydlabs.com](mailto:message@sydlabs.com)