

For Research Use Only

Anti-Human TIGIT Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98023-3-PBS



Basic Information

| | | |
|---------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------|
| Catalog Number: 98023-3-PBS | GenBank Accession Number: NM_173799.4 | Purification Method: Protein A purification |
| Size: 1mg, 2mg/ml | GeneID (NCBI): 201633 | CloneNo.: 240423A7 |
| Source: Rabbit | UNIPROT ID: Q495A1-1 | |
| Isotype: IgG | Full Name: T cell immunoreceptor with Ig and ITIM domains | |
| | Calculated MW: 26 kDa | |

Applications

Tested Applications:
Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

98023-3-PBS targets TIGIT as part of a matched antibody pair:

MP00528-3: 98023-3-PBS capture and 83545-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

TIGIT (T-cell immunoreceptor with Ig and ITIM domains), also known as VSIG9 or VSTM3, is an immune receptor expressed on T cells, including Treg and memory subsets, as well as on NK cells (PMID: 19011627). It contains an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT binds to poliovirus receptor (PVR, also called CD155) with high affinity, and also to PVRL2 (CD112) with lower affinity. The interaction of TIGIT with PVR on dendritic cells increases the secretion of IL-10 and decreases the secretion of proinflammatory cytokine and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells. TIGIT can inhibit NK cytotoxicity directly through its ITIM (PMID: 19815499).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

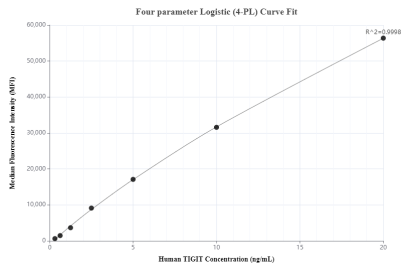
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

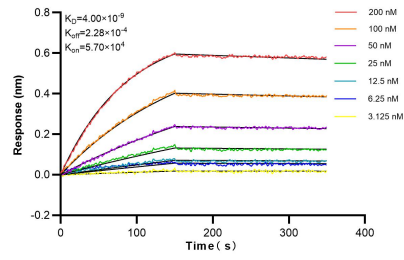
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Cytometric bead array standard curve of MP00528-3, TIGIT Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 98023-3-PBS. Detection antibody: 83545-3-PBS. Standard: Eg0749. Range: 0.156-20 ng/mL



Biolayer interferometry (BLI) kinetic assays of 98023-3-RR against Human TIGIT were performed. The affinity constant is 4.00 nM.