

For Research Use Only

Anti-Human TMIGD2/CD28H Rabbit Recombinant Antibody

Catalog Number: 98263-1-RR



Basic Information

Catalog Number: 98263-1-RR	GenBank Accession Number: BC015655	Purification Method: Protein A purification
Size: 100ug , 1000 µg/ml	GeneID (NCBI): 126259	CloneNo.: 241807A5
Source: Rabbit	UNIPROT ID: Q96BF3	
Isotype: IgG	Full Name: transmembrane and immunoglobulin domain containing 2	
	Calculated MW: 282 aa, 31 kDa	

Applications

Tested Applications:
FC

Species Specificity:
human

Background Information

Transmembrane and immunoglobulin domain-containing protein 2 (TMIGD2, also known as CD28H and IGPR1), plays a role in cell-cell interaction, migration, and angiogenesis. Through interaction with HHLA2, it costimulates T-cells in the context of TCR-mediated activation and enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade (PMID: 22419821; 23784006). TMIGD2 has been associated with several diseases, particularly in the context of cancer. It is aberrantly expressed by human AML cells and can be used to identify and enrich functional LSCs (PMID: 38167704).

Storage

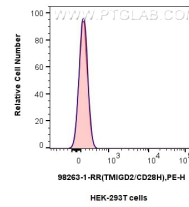
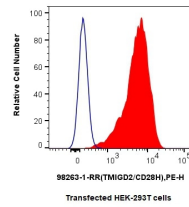
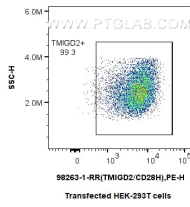
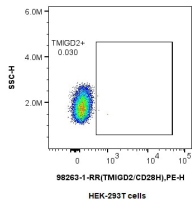
Storage:
Store at 2 - 8°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.09% sodium azide, pH 7.3.

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
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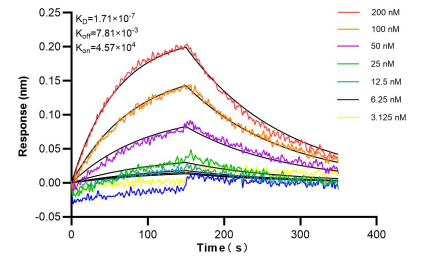
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Selected Validation Data



1x10⁶ HEK-293T cells or TMIGD2/CD28H transfected HEK-293T cells were stained with 0.25 ug Anti-Human TMIGD2/CD28H Rabbit Recombinant Antibody (98263-1-RR, Clone:241807A5) and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

1x10⁶ HEK-293T cells or TMIGD2/CD28H transfected HEK-293T cells were stained with 0.25 ug Anti-Human TMIGD2/CD28H Rabbit Recombinant Antibody (98263-1-RR, Clone: 241807A5) (red) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bi-layer interferometry (BLI) kinetic assays of 98263-1-RR against Human TMIGD2/CD28H were performed. The affinity constant is 171 nM.