

For Research Use Only

TMIGD2/CD28H Recombinant antibody, PBS Only

Catalog Number: 84727-5-PBS



Basic Information

Catalog Number: 84727-5-PBS	GenBank Accession Number: BC015655	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 126259	CloneNo.: 241807C12
Source: Rabbit	UNIPROT ID: Q96BF3	
Isotype: IgG	Full Name: transmembrane and immunoglobulin domain containing 2	
	Calculated MW: 282 aa, 31 kDa	
	Observed MW: 48 kDa	

Applications

Tested Applications:
WB, Indirect ELISA
Species Specificity:
human, pig

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). The predicted molecular weight of the TMIGD2 protein is 31 kDa. The higher molecular weight of TMIGD2 could be associated with its potential glycosylation at its extracellular region (PMID: 22419821).

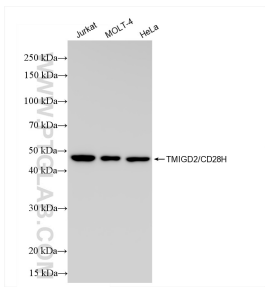
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

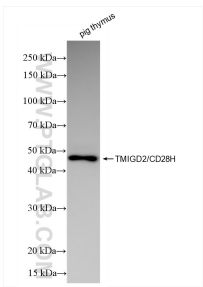
For technical support and original validation data for this product please contact:
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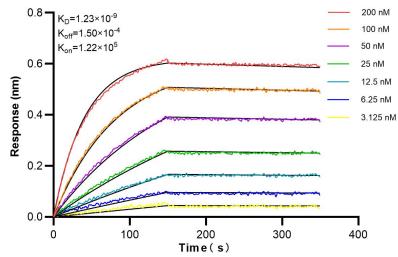
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84727-5-RR (TMIGD2/CD28H antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84727-5-PBS in a different storage buffer formulation.



pig thymus tissue were subjected to SDS PAGE followed by western blot with 84727-5-RR (TMIGD2/CD28H antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84727-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84727-5-RR against Human TMIGD2/CD28H were performed. The affinity constant is 1.23 nM.