

For Research Use Only

# TMIGD2/CD28H Recombinant antibody, PBS Only

Catalog Number: 84727-5-PBS



## Basic Information

Catalog Number:

84727-5-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC015655

GeneID (NCBI):

126259

UNIPROT ID:

Q96BF3

Full Name:

transmembrane and immunoglobulin  
domain containing 2

Calculated MW:

282 aa, 31 kDa

Observed MW:

48 kDa

Purification Method:

Protein A purification

CloneNo.:

241807C12

## 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.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:

PBS Only

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

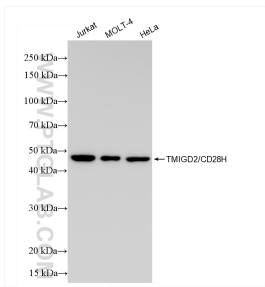
T: 4006900926

E: Proteintech-CN@ptglab.com

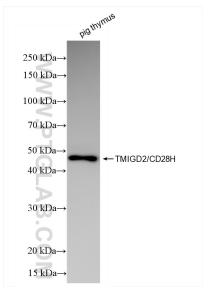
W: ptgcn.com

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

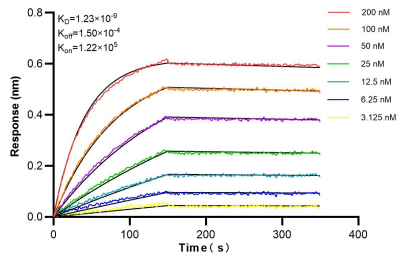
## Selected Validation Data



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.