

For Research Use Only

# TMIGD2/CD28H Recombinant antibody

Catalog Number: 84727-5-RR



## Basic Information

Catalog Number:

84727-5-RR

Size:

1000 µg/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

Recommended Dilutions:

WB 1:5000-1:50000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, pig

Positive Controls:

WB : Jurkat cells, pig thymus tissue, MOLT-4 cells, HeLa cells

## 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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

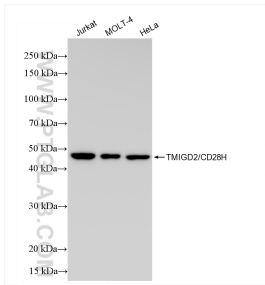
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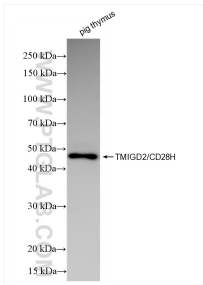
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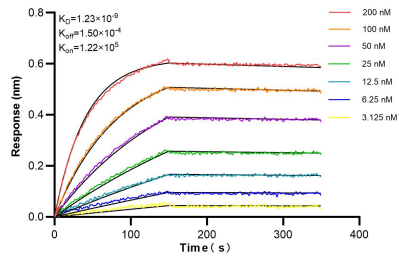
Selected Validation Data



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.



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.



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