

For Research Use Only

SEMA3A Recombinant antibody

Catalog Number: 83579-5-RR



Basic Information

Catalog Number:

83579-5-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27173

GenBank Accession Number:

BC111416

GeneID (NCBI):

10371

UNIPROT ID:

Q14563

Full Name:

sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A

Calculated MW:

771 aa, 89 kDa

Observed MW:

89 kDa

Purification Method:

Protein A purification

CloneNo.:

240509E3

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:200-1:800

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : SKOV-3 cells, PC-12 cells, C6 cells

IHC : human ovary cancer tissue, mouse heart tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

SEMA3A (Semaphorin 3A), a class-3 semaphorin signaling protein, is involved in cell signaling with PlexinA1 and Neuropilin-1 (NRP1) receptors and it is responsible for recruiting dendritic cells into lymphatics. It's widely expressed in different tissues (PMID:10766232). SEMA3A has been shown to exert osteoprotective effects, characterized by increasing bone formation while inhibiting the activation of osteoclast precursor cells (PMID:36598593). However, SEMA3A also modulates the immune system. SEMA3A expression in a myocardial infarct area enhances macrophage polarization and inhibits monocyte migration into the lesion area (PMID:28540528).

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

*** 20ul sizes contain 0.1% BSA

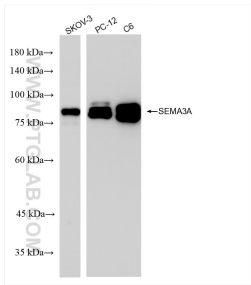
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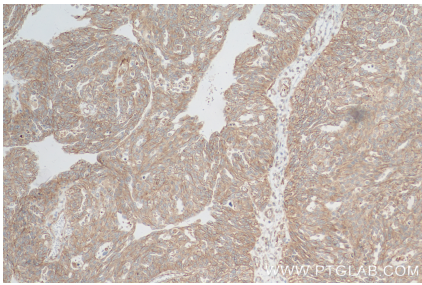
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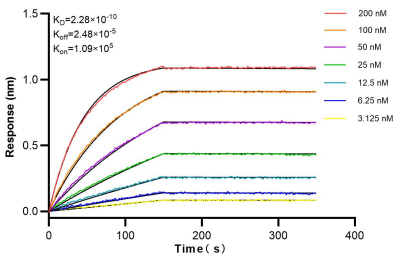
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83579-5-RR (SEMA3A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 83579-5-RR (SEMA3A antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83579-5-RR against Human SEMA3A were performed. The affinity constant is 0.228 nM.