

For Research Use Only

SEMA3A Recombinant antibody, PBS Only

Catalog Number: 83579-5-PBS



Basic Information

Catalog Number: 83579-5-PBS	GenBank Accession Number: BC111416	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 10371	CloneNo.: 240509E3
Source: Rabbit	UNIPROT ID: Q14563	
Isotype: IgG	Full Name: sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A	
Immunogen Catalog Number: AG27173	Calculated MW: 771 aa, 89 kDa	
	Observed MW: 89 kDa	

Applications

Tested Applications:
WB, IHC, ELISA
Species Specificity:
human, rat

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).

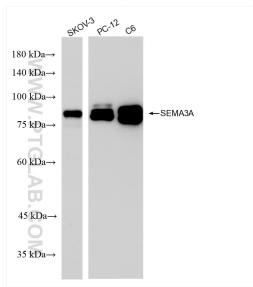
Storage

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

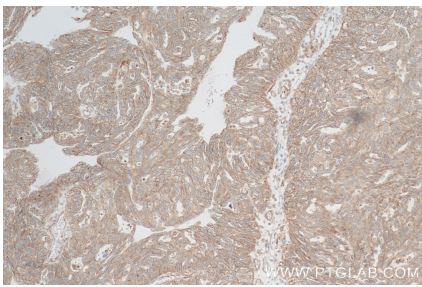
For technical support and original validation data for this product please contact:
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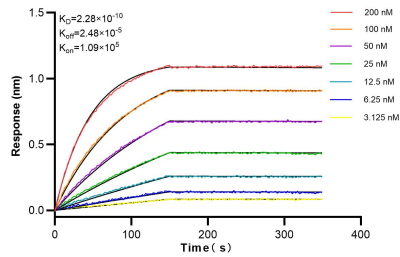
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83579-5-RR (SEMA3A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83579-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human ovary cancer 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). This data was developed using the same antibody clone with 83579-5-PBS in a different storage buffer formulation.



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