

For Research Use Only

Serpin A4/Kallistatin Recombinant monoclonal antibody, PBS Only

Catalog Number:86758-3-PBS



Basic Information

Catalog Number: 86758-3-PBS	GenBank Accession Number: NM_001289033.1	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5267	CloneNo.: 251716C12
Source: Rabbit	UNIPROT ID: P29622	
Isotype: IgG	Full Name: serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4	
Immunogen Catalog Number: EG4707	Calculated MW: 49 kDa	
	Observed MW: 49 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

Serpin A4 is also named Kallistatin and Peptidase inhibitor 4 (PI-4). Kallistatin was first identified in human plasma as a tissue kallikrein-binding protein and a serine proteinase inhibitor. Kallistatin via its two structural elements regulates differential signaling cascades, and thus a wide spectrum of biological functions (PMID: 28427524). Kallistatin via the active site promotes neovascularization by stimulating VEGF levels in endothelial progenitor cells. Second, kallistatin inhibits or induces apoptosis depending on cell types. Kallistatin via its heparin-binding site inhibits angiogenesis by blocking vascular endothelial growth factor (VEGF)-induced growth, migration and adhesion of endothelial cells. Kallistatin can act as an antioxidant or pro-oxidant (PMID: 28742513).

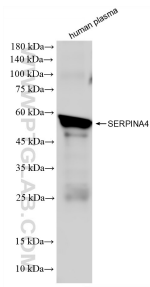
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

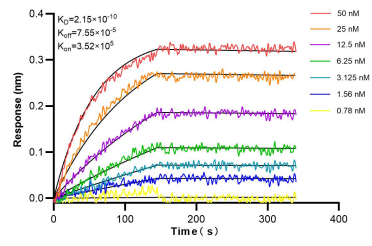
For technical support and original validation data for this product please contact:
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W: ptglab.com

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Selected Validation Data



Human plasma was subjected to SDS PAGE followed by western blot with 86758-3-RR (Serp A4/Kallistatin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86758-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 86758-3-RR against Human Serpin A4/Kallistatin were performed. The affinity constant is 0.215 nM.