

For Research Use Only

Serpin A4/Kallistatin Recombinant monoclonal antibody

Catalog Number:86758-3-RR



Basic Information

Catalog Number: 86758-3-RR	GenBank Accession Number: NM_001289033.1	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 5267	CloneNo.: 251716C12
Source: Rabbit	UNIPROT ID: P29622	Recommended Dilutions: WB: 1:1000-1:4000
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, ELISA	Positive Controls: WB : human plasma,
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

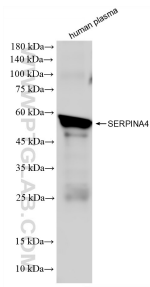
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

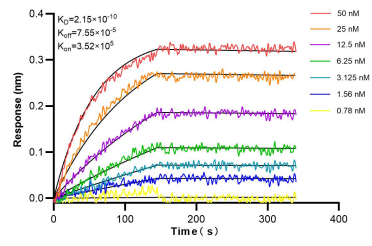
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Human plasma was subjected to SDS PAGE followed by western blot with 86758-3-RR (Serpina4/Kallistatin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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