

For Research Use Only

Serpin A4/Kallistatin Recombinant monoclonal antibody

Catalog Number:86758-1-RR



Basic Information

Catalog Number: 86758-1-RR	GenBank Accession Number: NM_001289033.1	Purification Method: Protein A purification
Size: 100ul , Concentration: 1100 µg/ml by Nanodrop;	GeneID (NCBI): 5267	CloneNo.: 251716B4
Source: Rabbit	UNIPROT ID: P29622	Recommended Dilutions: WB: 1:5000-1:50000
Isotype: IgG	Full Name: serpin peptidase inhibitor, clade A (alpha-1 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, mouse plasma
Species Specificity: human, mouse	

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

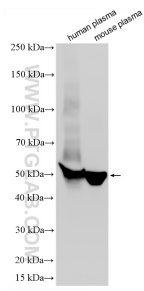
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 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)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86758-1-RR (Serpin A4/Kallistatin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.