

For Research Use Only

Serpin A4/Kallistatin Recombinant monoclonal antibody

Catalog Number:86758-3-RR



Basic Information

Catalog Number:

86758-3-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG4707

GenBank Accession Number:

NM_001289033.1

GeneID (NCBI):

5267

UNIPROT ID:

P29622

Full Name:

serpin peptidase inhibitor, clade A
(alpha-1 antiproteinase, antitrypsin),
member 4

Calculated MW:

49 kDa

Observed MW:

49 kDa

Purification Method:

Protein A purification

CloneNo.:

251716C12

Recommended Dilutions:

WB: 1:1000-1:4000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : human plasma,

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

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

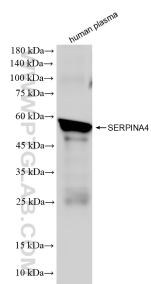
T: 4006900926

E: Proteintech-CN@ptglab.com

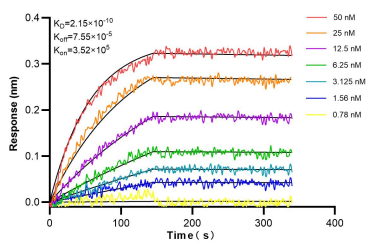
W: ptgcn.com

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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.