



Anti-SERPINA4 polyclonal antibody [Biotin] (DPABY-546)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The human serpin superfamily consists of at least 35 members that target not only serine proteases, but also selected cysteine proteases and non-protease proteins. Serpins bind the protease active site resulting in a major conformational rearrangement that traps the enzyme in a covalent acyl-enzyme intermediate. As protease inhibitors, serpins have an array of functions including regulating blood clotting, the complement pathway, extracellular matrix remodeling, and cell motility. They are also involved in activities that extend beyond their ability to inhibit proteases. For instance, they may also regulate blood pressure, angiogenesis, or act as storage/transport proteins.
Specificity	Detects human Serpin A4/Kallistatin in ELISAs and Western blots. In sandwich immunoassays, less than 0.5% cross-reactivity with recombinant human (rh)Serpina1, rhSerpina3, rhSerpina5, rhSerpina1, rhSerpinaD1, rhSerpinaE1, rhSerpinaE2, and rhSerpinaF2 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Serpin A4/Kallistatin. Gln21-Pro427 Accession Number AAA59454
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid

Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.
Preservative	None
Storage	Lyophilized samples are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Upon reconstitution, the antibody can be stored at 2 °C to 8 °C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20 °C to -70 °C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	SERPINA4 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4 [Homo sapiens (human)]
Official Symbol	SERPINA4
Synonyms	SERPINA4; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4; KAL; KST; PI4; KLST; PI-4; kallistatin; kallistatin; serpin A4; kallikrein inhibitor; peptidase inhibitor 4; protease inhibitor 4 (kallistatin); serine (or cyst
Entrez Gene ID	5267
Protein Refseq	NP_001275961
UniProt ID	P29622
Chromosome Location	14q32.13
Function	serine-type endopeptidase inhibitor activity;