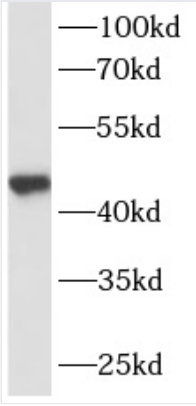
SERPINE2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SERPINE2, Monoclonal Antibody
Full Product Name	SERPINE2 Mouse Monoclonal
Product Gene Name	anti-SERPINE2 antibody
Clonality	Monoclonal
Isotype	IgG1
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>=95% as determined by SDS-PAGE Protein A+G purification
Preparation and Storage	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20 degree C for 24 months (Avoid repeated freeze / thaw cycles.)
Molecular Weight	45,267 Da
OMIM	177010
Immunogen	Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SERPINE2 antibody	ELISA (EIA), Western Blot (WB)
Related Product Information for anti-SERPINE2 antibody	MBS7603985 is an antibody targeting SERPINE2. Also known as SERPINE2 Mouse Monoclonal. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-SERPINE2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SERPINE2 antibody
HEK-293 cells were subjected to SDS PAGE followed by western blot with MBS7603985 (SERPINE2 Antibody) at dilution of 1:1000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SERPINE2. It may not necessarily be applicable to this product.

NCBI GI #	27769056
NCBI GeneID	5270
NCBI Accession #	AAH42628.1
UniProt Secondary Accession #	Q53S15; Q5D0C4; B2R6A4; B4DIF2
UniProt Related Accession #	P07093
NCBI Official Full Name	SERPINE2 protein
NCBI Official Synonym Full Names	serpin family E member 2
NCBI Official Symbol	SERPINE2
NCBI Official Synonym Symbols	GDN; PI7; PN1; PNI; PI-7; PN-1; GDNPF
UniProt Protein Name	Glia-derived nexin
UniProt Synonym Protein Names	Peptidase inhibitor 7; PI-7; Protease nexin 1; PN-1; Protease nexin I; Serpin E2
Protein Family	Glia-derived nexin
UniProt Gene Name	SERPINE2
UniProt Synonym Gene Names	PI7; PN1; GDN; PI-7; PN-1
UniProt Entry Name	GDN_HUMAN
NCBI Protein Information	glia-derived nexin
NCBI Summary for SERPINE2	This gene encodes a member of the serpin family of proteins, a group of proteins that inhibit serine proteases. Thrombin, urokinase, plasmin and trypsin are among the proteases that this family member can inhibit. This gene is a susceptibility gene for chronic obstructive pulmonary disease and for emphysema. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]
UniProt Comments for SERPINE2	SERPINE2: Serine protease inhibitor with activity toward thrombin, trypsin, and urokinase. Promotes neurite extension by inhibiting thrombin. Binds heparin. Belongs to the serpin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Inhibitor; Secreted Chromosomal Location of Human Ortholog: 2q36.1 Cellular Component: cell soma; cytosol; extracellular matrix; extracellular region; extracellular space; extrinsic to external side of plasma membrane; neuromuscular junction Molecular Function: glycosaminoglycan binding; heparin binding; protein binding; receptor binding; serine-type endopeptidase inhibitor activity Biological Process: blood coagulation; cerebellar granular layer morphogenesis; detection of mechanical stimulus involved in sensory perception; embryo implantation; mating plug formation; negative regulation of blood coagulation; negative regulation of cell growth; negative regulation of cell proliferation; negative regulation of phosphoinositide 3-kinase cascade; negative regulation of protein catabolic process; negative regulation of proteolysis; negative regulation of smoothened signaling pathway; positive regulation of astrocyte differentiation; regulation of cell migration; regulation of synaptic transmission, glutamatergic; regulation of timing of cell differentiation; response to radiation; secretion by cell; secretory granule organization and biogenesis
Research Articles on SERPINE2	**1.** together, these data demonstrate that SERPINE2 might prevent cartilage catabolism by inhibiting the expression of MMP-13, one of the most relevant collagenases, involved in cartilage breakdown in OA.

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