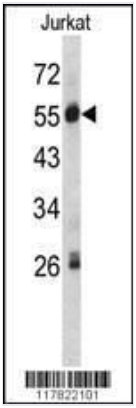
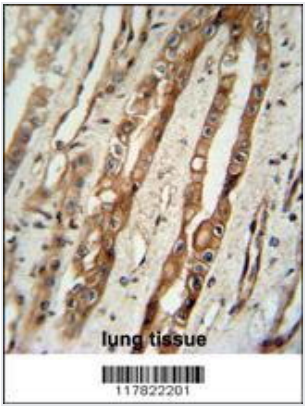
SERPING1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

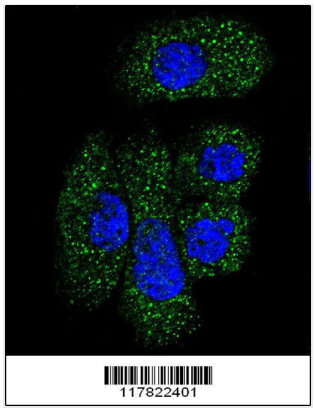
Product Name	SERPING1, Polyclonal Antibody
Full Product Name	SERPING1, ID (Plasma Protease C1 Inhibitor, C1 Inh, C1Inh, C1 Esterase Inhibitor, C1-inhibiting Factor, C1NH, C1IN)
Product Gene Name	anti-SERPING1 antibody
Product Synonym Names	Anti -SERPING1, ID (Plasma Protease C1 Inhibitor, C1 Inh, C1Inh, C1 Esterase Inhibitor, C1-inhibiting Factor, C1NH, C1IN)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.09% sodium azide.
Purity/Purification	Purified Purified by ammonium sulfate precipitation.
Specificity	Recognizes human SERPING1.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	14,110 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (57365027..57382326). Location: 11q12-q13.1
3D Structure	ModBase 3D Structure for Q5UGI5
Immunogen	Synthetic peptide selected from the Center region of human SERPING1 (KLH).
Product Categories/Family for anti-SERPING1 antibody	Antibodies; Abs to Protease Inhibitors
Applications Tested/Suitable for anti-SERPING1 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-SERPING1 antibody	Suitable for use in ELISA and Western Blot. Dilution: ELISA: 1:1,000 Western Blot: 1:50-1:100
Related Product Information for anti-SERPING1 antibody	SERPING1 is a highly glycosylated plasma protein involved in the regulation of the complement cascade. This protein inhibits activated C1r and C1s of the first complement component and thus regulates complement activation. Deficiency of this protein is associated with hereditary angioneurotic oedema (HANE).
Other Notes	Small volumes of anti-SERPING1 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.
Searchable Terms for SERPING1 purchase	MBS624659 is an antibody targeting SERPING1. Also known as SERPING1, ID (Plasma Protease C1 Inhibitor, C1 Inh, C1Inh, C1 Esterase Inhibitor, C1-inhibiting Factor, C1NH, C1IN). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SERPING1 antibody
Western blot analysis of SERPING1 antibody (Center) in Jurkat cell line lysates (35ug/lane). SERPING1 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-SERPING1 antibody
SERPING1 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SERPING1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-SERPING1 antibody
Confocal immunofluorescent analysis of SERPING1 Antibody (Center) with NCI-H292 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SERPING1. It may not necessarily be applicable to this product.

NCBI GI #	54300698
NCBI GeneID	710
UniProt Primary Accession #	Q5UGI5
UniProt Related Accession #	P05155; Q5UGI5; Q5UGI6
NCBI Official Full Name	serine/cysteine proteinase inhibitor clade G member 1 splice variant 3
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1
NCBI Official Symbol	SERPING1
NCBI Official Synonym Symbols	C1IN; C1NH; HAE1; HAE2; C1INH
UniProt Protein Name	Serine/cysteine proteinase inhibitor clade G member 1 splice variant 3
Protein Family	Plasma protease C1 inhibitor
UniProt Gene Name	SERPING1
UniProt Entry Name	Q5UGI5_HUMAN

NCBI Protein Information	plasma protease C1 inhibitor; serpin G1; OTTHUMP00000197003; OTTHUMP00000197004; OTTHUMP00000197007; OTTHUMP00000235286; OTTHUMP00000235287; C1-inhibiting factor; C1 esterase inhibitor; complement component 1 inhibitor; serine/cysteine proteinase inhibitor clade G member 1
NCBI Summary for SERPING1	This gene encodes a highly glycosylated plasma protein involved in the regulation of the complement cascade. Its protein inhibits activated C1r and C1s of the first complement component and thus regulates complement activation. Deficiency of this protein is associated with hereditary angioneurotic oedema (HANE). Alternative splicing results in multiple transcript variants encoding the same isoform. [provided by RefSeq]
UniProt Comments for SERPING1	SERPING1: a protein protease inhibitor (C1-inhibitor) that forms a proteolytically inactive stoichiometric complex with the C1r or C1s proteases. May play an important role in regulating complement activation, blood coagulation, fibrinolysis and the generation of kinins. Very efficient inhibitor of FXIIa. Mutations of the SERPING1 gene is associated with adult macular degeneration can also cause hereditary angioedema. Binds to E.coli stcE which allows localization of SERPING1 to cell membranes thus protecting the bacteria against complement-mediated lysis. Belongs to the serpin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 11q12.1 Cellular Component: extracellular space; extracellular region Molecular Function: serine-type endopeptidase inhibitor activity; protein binding Biological Process: negative regulation of complement activation, lectin pathway; platelet activation; fibrinolysis; platelet degranulation; blood circulation; innate immune response; blood coagulation; complement activation, classical pathway; blood coagulation, intrinsic pathway; aging Disease: Angioedema, Hereditary, Type I; Complement Component 4, Partial Deficiency Of
Research Articles on SERPING1	**1.** We did not find a significant association between SERPING1 and exudative age-related macular degeneration in our study
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