HTRA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HTRA1, Polyclonal Antibody
Full Product Name	HTRA1 Rabbit Polyclonal Antibody
Product Gene Name	anti-HTRA1 antibody
Product Synonym Gene Name	HTRA1, HTRA, PRSS11
Product Synonym Names	BH6842; Serine protease HTRA1 (EC 3.4.21.-)(High-temperature requirement A serine peptidase 1)(L56)(Serine protease 11)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	HTRA1 Polyclonal Antibody detects endogenous levels of protein.
Preparation and Storage	Store at -20 degree C/1 year
OMIM	gene 610149
3D Structure	ModBase 3D Structure for Q92743
Immunogen	Synthesized peptide derived from part region of human protein
Modification	Unmodified/Total
Applications Tested/Suitable for anti-HTRA1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-HTRA1 antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-HTRA1 antibody	This gene encodes a member of the trypsin family of serine proteases. This protein is a secreted enzyme that is proposed to regulate the availability of insulin-like growth factors (IGFs) by cleaving IGF-binding proteins. It has also been suggested to be a regulator of cell growth. Variations in the promoter region of this gene are the cause of susceptibility to age-related macular degeneration type 7. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of anti-HTRA1 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 HTRA1 purchase	MBS9514898 is an antibody targeting HTRA1. Also known as HTRA1 Rabbit Polyclonal Antibody. Reactive in Human, Rat, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HTRA1. It may not necessarily be applicable to this product.

NCBI GI #	18202620

NCBI GeneID	5654
NCBI Accession #	Q92743.1
UniProt Primary Accession #	Q92743
UniProt Secondary Accession #	Q9UNS5; D3DRE4
UniProt Related Accession #	Q92743
NCBI Official Full Name	Serine protease HTRA1
NCBI Official Synonym Full Names	HtrA serine peptidase 1
NCBI Official Symbol	HTRA1
NCBI Official Synonym Symbols	L56; HtrA; ARMD7; ORF480; PRSS11; CARASIL
UniProt Protein Name	Serine protease HTRA1
UniProt Synonym Protein Names	High-temperature requirement A serine peptidase 1; L56; Serine protease 11
Protein Family	Serine protease
UniProt Gene Name	HTRA1
UniProt Synonym Gene Names	HTRA; PRSS11
UniProt Entry Name	HTRA1_HUMAN
NCBI Protein Information	serine protease HTRA1; IGFBP5-protease; protease, serine, 11 (IGF binding); high-temperature requirement A serine peptidase 1

UniProt Comments for HTRA1	HTRA1: Serine protease with a variety of targets, including extracellular matrix proteins such as fibronectin. HTRA1-generated fibronectin fragments further induce synovial cells to up-regulate MMP1 and MMP3 production. May also degrade proteoglycans, such as aggrecan, decorin and fibromodulin. Through cleavage of proteoglycans, may release soluble FGF-glycosaminoglycan complexes that promote the range and intensity of FGF signals in the extracellular space. Regulates the availability of insulin-like growth factors (IGFs) by cleaving IGF-binding proteins. Inhibits signaling mediated by TGF-beta family members. This activity requires the integrity of the catalytic site, although it is unclear whether TGF-beta proteins are themselves degraded. By acting on TGF-beta signaling, may regulate many physiological processes, including retinal angiogenesis and neuronal survival and maturation during development. Intracellularly, degrades TSC2, leading to the activation of TSC2 downstream targets. Variations in the promoter region of HTRA1 are the cause of susceptibility to age-related macular degeneration type 7 (ARMD7). ARMD is the leading cause of vision loss and blindness among older individuals in the developed word. It is classified as either dry (nonneovascular) or wet (neovascular). ARMD7 is a wet form, in which new blood vessels form and break beneath the retina. This leakage causes permanent damage to surrounding retinal tissue, distorting and destroying central vision. Wet ARMD is more prevalent among Asians than Caucasians. Defects in HTRA1 are the cause of cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy (CARASIL). CARASIL is characterized by nonhypertensive cerebral small-vessel arteriopathy with subcortical infarcts, alopecia, and spondylosis, with an onset in early adulthood. On neuropathological examination, atherosclerosis associated with intimal thickening and dense collagen fibers, loss of vascular smooth-muscle cells, and hyaline degeneration of the tunica media has been observed in cerebral small arteries. Belongs to the peptidase S1B family. Protein type: EC 3.4.21.-; Secreted, signal peptide; Secreted; Protease Chromosomal Location of Human Ortholog: 10q26.3 Cellular Component: extracellular matrix; extracellular space; cytosol Molecular Function: insulin-like growth factor binding; serine-type peptidase activity; serine-type endopeptidase activity Biological Process: negative regulation of defense response to virus; regulation of cell growth; negative regulation of transforming growth factor beta receptor signaling pathway; proteolysis; positive regulation of epithelial cell proliferation; negative regulation of BMP signaling pathway Disease: Macular Degeneration, Age-related, 7; Cerebral Autosomal Recessive Arteriopathy With Subcortical Infarcts And Leukoencephalopathy
Research Articles on HTRA1	**1.** the over-expression of HtrA1 is correlated to cellular differentiation grade and stage of Neuroblastoma at diagnosis
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