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htrA1 Antibody

Rabbit mAb
Catalog # AP93110

Product Information

Application	WB, IF, ICC
Primary Accession	Q92743
Reactivity	Human
Clonality	Monoclonal
Other Names	ARMD7; CARASIL; High-temperature requirement A serine peptidase 1; HtrA; HtrA serine peptidase 1; HTRA1; IGFBP5 protease; ORF480; Protease serine 11 (IGF binding); protease serine 11; PRSS11; Serine protease 11; Serine protease HTRA1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	51287

Additional Information

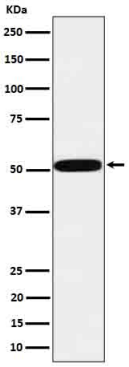
Dilution	WB 1:500~1:2000 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human htrA1
Description	Protease that regulate the availability of nsulin-like growth factors (IGFs) by cleaving IGF-binding proteins. Represses signaling by TGF-beta family members.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	HTRA1
Synonyms	HTRA, PRSS11
Function	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.
Cellular Location	Cell membrane. Secreted Cytoplasm, cytosol. Note=Predominantly secreted (PubMed:15208355). Also found associated with the plasma membrane (PubMed:21297635).
Tissue Location	Widely expressed, with strongest expression in placenta (at protein level). Secreted by synovial fibroblasts. Up- regulated in osteoarthritis and rheumatoid arthritis synovial fluids and cartilage as compared with non-arthritic (at protein level)

Images



Western blot analysis of htrA1 in MCF7 cell lysate.