

## **Anti-HTRA1** antibody



**Description** Unconjugated Rabbit polyclonal to HTRA1

Model STJ192145

**Host** Rabbit

**Reactivity** Human, Mouse, Rat

**Applications** ELISA, WB

**Gene ID** <u>5654</u>

Gene Symbol HTRA1

**Dilution range** WB 1:500-2000 ELISA 1:5000-20000

**Specificity** HTRA1 Polyclonal Antibody detects endogenous levels of protein.

**Tissue Specificity** 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).

Purification HTRA1 antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Note** For Research Use Only (RUO).

**Protein Name** Serine protease HTRA1 High-temperature requirement A serine peptidase 1

L56 Serine protease 11

Molecular Weight 52 kDa

**Clonality** Polyclonal

**Conjugation** Unconjugated

**Isotype** IgG

**Formulation** Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:9476OMIM:600142</u>

Alternative Names Serine protease HTRA1 High-temperature requirement A serine peptidase 1

L56 Serine protease 11

**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.

Sequence and Domain Family The IGFBP N-terminal domain mediates interaction with TSC2 substrate.

**Cellular Localization** Cell membrane Secreted Cytoplasm, cytosol. Predominantly secreted . Also

found associated with the plasma membrane.

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