

ARG81347 Human HtrA1 ELISA Kit

Package: 96 wells
Store at: 4°C or -20°C
(depending on the
component)

Summary

Product Description	ARG81347 Human HtrA1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human HtrA1 in serum, placenta and cell culture supernatant.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	The assay recognizes HtrA1 full length (50 kDa) and the truncated form of HtrA1 (aa. 141-480, 37 kDa). It does not cross-react with human HtrA3 or HtrA4.
Target Name	HtrA1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	391 pg/ml
Sample Type	Serum, placenta and cell culture supernatant.
Standard Range	0.39 - 25 ng/ml
Sample Volume	100 µl
Alternate Names	CARASIL; L56; HtrA; ARMD7; High-temperature requirement A serine peptidase 1; PRSS11; ORF480; EC 3.4.21.-; Serine protease 11; Serine protease HTRA1

Application Instructions

Assay Time	~ 5 hours
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Properties

Form	Liquid
Storage instruction	Store components at 4°C or -20°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	HTRA1
Gene Full Name	HtrA serine peptidase 1
Background	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]

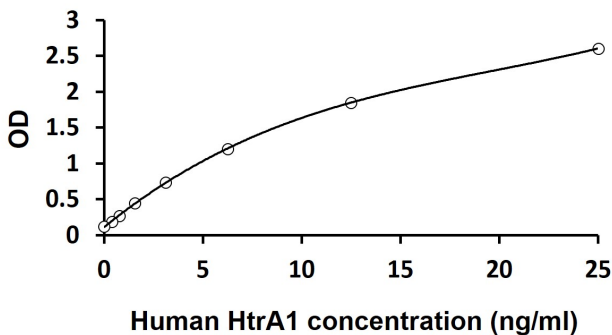
Function

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. [UniProt]

Highlight

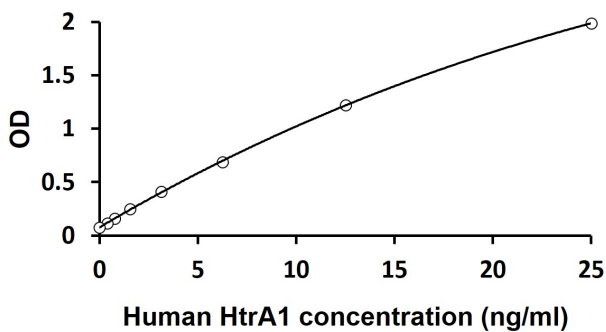
Related products:
[HtrA1 antibodies](#); [HtrA1 ELISA Kits](#);
New ELISA data calculation tool:
[Simplify the ELISA analysis by GainData](#)

Images



ARG81347 Human HtrA1 ELISA Kit standard curve image

ARG81347 Human HtrA1 ELISA Kit results of a typical standard run with optical density reading at 450 nm. (prepared with Assay Buffer).



ARG81347 Human HtrA1 ELISA Kit standard curve image

ARG81347 Human HtrA1 ELISA Kit results of a typical standard run with optical density reading at 450 nm. (prepared with Serum Standard Diluent).