

Rabbit HTRA1/Htra Polyclonal Antibody | anti-HTRA1 antibody

Anti-HTRA1/Htra Picoband antibody

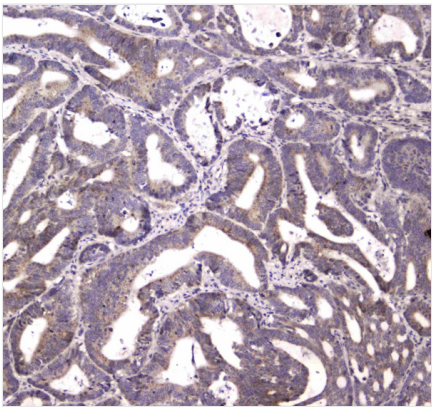
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124671	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

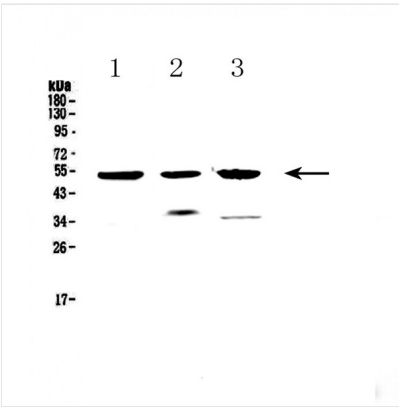
HTRA1/Htra; Polyclonal Antibody; Anti-HTRA1/Htra Picoband antibody; Serine protease HTRA1; High-temperature requirement A serine peptidase 1; L56; Serine protease 11; HTRA1; HTRA; PRSS11; anti-HTRA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	480
Applicable Applications for anti-HTRA1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to a sequence of human HTRA1 (QLRAASRRSERLHRPPVIVLQRGACGQGQEDPNSLRHKYNFIAD).
Subcellular Localization	Cell membrane.
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-arthritis (at protein level).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of HTRA1 using anti-HTRA1 antibody (AAA124671).HTRA1 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-HTRA1 Antibody (AAA124671) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of HTRA1 using anti-HTRA1 antibody (AAA124671).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human MCF-7 whole cell lysates,Lane 2: rat heart tissue lysates,Lane 3: mouse heart tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HTRA1 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HTRA1 at approximately 51KD. The expected band size for HTRA1 is at 51KD.

ADDITIONAL INFORMATION

Related Product Information for anti-HTRA1 antibody	Description: Serine protease HTRA1 is an enzyme that in humans is encoded by the HTRA1 gene. 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. Protein 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506141
NCBI GeneID	5654
NCBI Accession #	NP_002766.1
NCBI GenBank Nucleotide #	NM_002775.4
UniProt Accession #	Q92743; Q9UNS5; D3DRE4
Molecular Weight	51,287 Da
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; CADASIL2
NCBI Protein Information	serine protease HTRA1
UniProt Protein Name	Serine protease HTRA1
UniProt Gene Name	HTRA1
UniProt Synonym Gene Names	HTRA; PRSS11

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/htra1-htra-antibody-western-blot-immunohistochemistry-elisa/124671>