abcam

Product datasheet

Recombinant human htrA1 protein ab134441

1 References 2 Images

Description

Product name	Recombinant human htrA1 protein
Biological activity	Proteolytic activity of ab134441 was documented by digestion of ß- casein. 0.5 mg ß-casein/ml are completely digested by 5 µg/ml ab134441 within 3 hours at 37°C.
Purity	> 70 % SDS-PAGE. ab134441 was purified from insect cell culture supernatants by affinity purification.
Expression system	Insect cells
Accession	Q92743
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	50 kDa including tags
Amino acids	1 to 480
Tags	His tag C-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab134441** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid

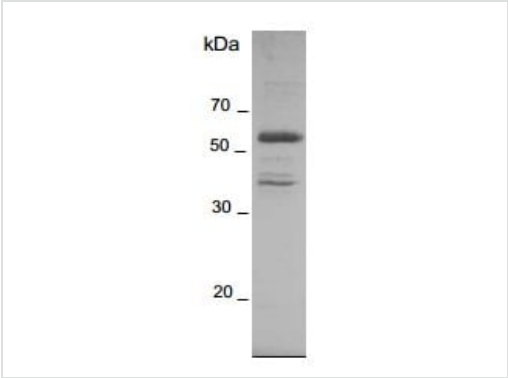
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Preservative: 0.34% Imidazole Constituents: 0.05% Brij, 0.05% Calcium chloride, 0.79% Tris HCl, 0.88% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

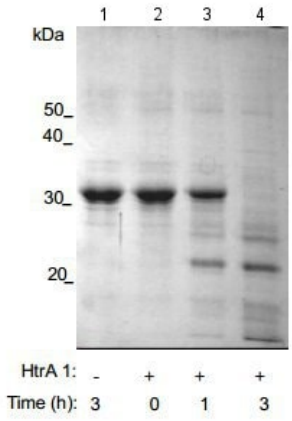
Function	Protease that regulate the availability of nsulin-like growth factors (IGFs) by cleaving IGF-binding proteins. Represses signaling by TGF-beta family members.
Tissue specificity	Expressed in a variety of tissues, with strongest expression in placenta.
Involvement in disease	Variations in the promoter region of HTRA1 are the cause of susceptibility to age-related macular degeneration type 7 (ARMD7) [MIM:610149]. 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) [MIM:600142]. CARASIL is characterized by nonhypertensive cerebral small-vessel arteriopathy with subcortical infarcts, alopecia, and spondylosis, with an onset in early adulthood. On neuropathological examination, arteriosclerosis 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.
Sequence similarities	Belongs to the peptidase S1B family. Contains 1 IGFBP N-terminal domain. Contains 1 Kazal-like domain. Contains 1 PDZ (DHR) domain.
Cellular localization	Secreted.

Images



SDS-PAGE - Recombinant human htrA1 protein (ab134441)

SDS-PAGE analysis of ab134441 (2µg).



SDS-PAGE - Recombinant human htrA1 protein (ab134441)

Hydrolysis of ß-Casein by ab134441. ß-Casein (0.5 mg/ml) was incubated in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 5 mM CaCl2 without or with ab134441 (5 µg/ml). After various time intervals aliquots of the reaction mixtures were withdrawn and analyzed by SDS-PAGE.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors