abcam

Product datasheet

Recombinant Human HtrA2 / Omi protein ab48747

1 Image

Description

Product name	Recombinant Human HtrA2 / Omi protein
Purity	> 95 % SDS-PAGE. The mature HtrA2/Omi protein (134-458aa) was overexpressed in E.coli and purified by conventional column chromatography techniques.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAVPSPPPAS PRSQYNFIAD VVEKTAPAVV YIEILDRHPF LGREVPISNG SGFVVAADGL IVTNAHVVAD RRRVRVRLLS GDTYEAVVTA VDPVADIATL RIQTKEPLPT LPLGRSADVR QGEFVVAMGS PFALQNTITS GIVSSAQRPA RDLGLPQTNV EYIQTDAAID FGNAGGPLVN LDGEVIGVNT MKVTAGISFA IPSDRLREFL HRGEKKNSSS GISGSQRRYI GVMMLTLSPS ILAELQLREP SFPDVQHGVL IHKVILGSPA HRAGLRPGDV ILAIGEQMVQ NAEDVYEAVR TQSQLAVQIR RGRETLTLYV TPEVTEGSHH HHHH

Specifications

Our **Abpromise guarantee** covers the use of **ab48747** 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
Form	Liquid

Preparation and Storage

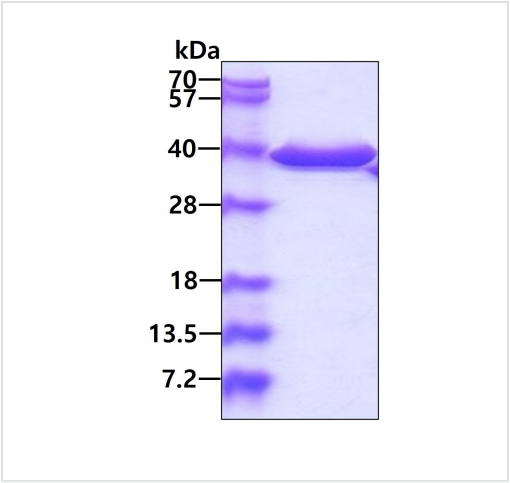
Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.0154% DTT, 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.29% Sodium

chloride

General Info

Function	Serine protease that shows proteolytic activity against a non-specific substrate beta-casein. Promotes or induces cell death either by direct binding to and inhibition of BIRC proteins (also called inhibitor of apoptosis proteins, IAPs), leading to an increase in caspase activity, or by a BIRC inhibition-independent, caspase-independent and serine protease activity-dependent mechanism. Cleaves THAP5 and promotes its degradation during apoptosis. Isoform 2 seems to be proteolytically inactive.
Tissue specificity	Isoform 1 is ubiquitous. Isoform 2 is expressed predominantly in the kidney, colon and thyroid.
Involvement in disease	Defects in HTRA2 are the cause of Parkinson disease type 13 (PARK13) [MIM:610297]. A complex neurodegenerative disorder characterized by bradykinesia, resting tremor, muscular rigidity and postural instability, as well as by a clinically significant response to treatment with levodopa. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated proteins), in surviving neurons in various areas of the brain.
Sequence similarities	Belongs to the peptidase S1B family. Contains 1 PDZ (DHR) domain.
Domain	The mature N-terminus is involved in the interaction with XIAP. The PDZ domain mediates interaction with MXI2.
Post-translational modifications	Autoproteolytically activated.
Cellular localization	Mitochondrion intermembrane space. Mitochondrion membrane. Predominantly present in the intermembrane space. Released into the cytosol following apoptotic stimuli, such as UV treatment, and stimulation of mitochondria with caspase-8 truncated BID/tBID.

Images



SDS-PAGE - Recombinant Human HtrA2 / Omi protein (ab48747)

15% SDS-PAGE gel loaded with 3 µg ab48747.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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