

Product datasheet

Anti-HtrA2 / Omi antibody ab21307

2 Images

Overview

Product name	Anti-HtrA2 / Omi antibody
Description	Rabbit polyclonal to HtrA2 / Omi
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human HtrA2/ Omi.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: PBS
Purification notes	Ion exchange chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab21307** in the following tested applications.

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

Application	Abreviews	Notes
ICC/IF		Use a concentration of 20 µg/ml.
WB		Use a concentration of 0.5 - 1 µg/ml. Predicted molecular weight: 48 kDa.

Target

Function	Serine protease that shows proteolytic activity against a non-specific substrate beta-casein.
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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.

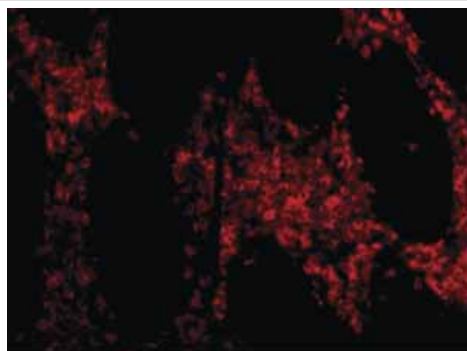
Post-translational modifications

Autoproteolytically activated.

Cellular localization

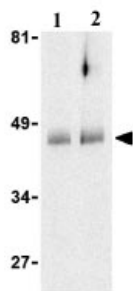
Mitochondrion intermembrane space. Mitochondrion membrane. Predominantly present in the intermembrane space. Released into the cytosol following apoptotic stimuli, such as UV treatment, and stimulation of mitochondria with caspase-8 truncated BID/tBID.

Images



Immunofluorescence of HtrA2 / Omi in Human colon tissue with ab21307 at 20 ug/mL.

Immunocytochemistry/ Immunofluorescence - Anti-HtrA2 / Omi antibody (ab21307)



Western blot - Anti-HtrA2 / Omi antibody (ab21307)

Lane 1 : Anti-HtrA2 / Omi antibody (ab21307) at 0.5 µg/ml

Lane 2 : Anti-HtrA2 / Omi antibody (ab21307) at 1 µg/ml

All lanes : Human colon cell lysate

Predicted band size: 48 kDa

Western blot analysis of HtrA2 in human colon cell lysates with anti-HtrA2 at (A) 0.5 and (B) 1 µg/ml.

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