




Product datasheet

Anti-HtrA2 / Omi antibody - C-terminal ab229878

5 Images

Overview

Product name	Anti-HtrA2 / Omi antibody - C-terminal
Description	Rabbit polyclonal to HtrA2 / Omi - C-terminal
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Cow 
Immunogen	Recombinant fragment corresponding to Human HtrA2/ Omi aa 334-458 (C terminal). Sequence: PSDRLREFLHRGEKKNSSSGISGSQRRYIGVMMLTLSPSIL AELQLREPS FPDVQHGVLIHKVILGSPAHRAGLRPGDVILAIGEQMVQNA EDVYEAVRT QSQLAVQIRRGRETLTY/TPEVTE Database link: O43464  Run BLAST with  Run BLAST with
Positive control	WB: HeLa, HEK-293, Jurkat, MCF7 and Raji whole cell lysates. IHC-P: Human colon cancer and kidney tissues. IP: MCF7 whole cell lysate.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions,</p>

special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituents: 50% Glycerol (glycerin, glycerine), PBS, 0.03% Proclin 300
Purity	Protein G purified
Purification notes	Purity >95%.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab229878** 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
IHC-P		1/20 - 1/200.
WB		1/500 - 1/5000. Detects a band of approximately 49 kDa (predicted molecular weight: 49 kDa).
IP		1/200 - 1/2000.

Target

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.

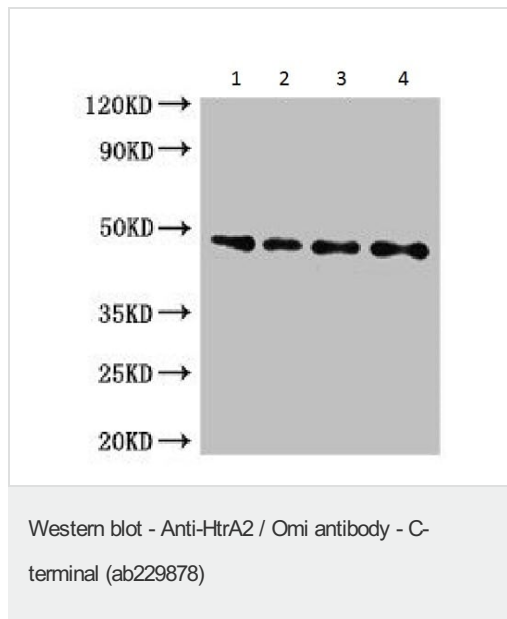
Post-translational modifications

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



All lanes : Anti-HtrA2 / Omi antibody - C-terminal (ab229878) at 1/500 dilution

Lane 1 : HEK-293 (human epithelial cell line from embryonic kidney) whole cell lysate

Lane 2 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 3 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate

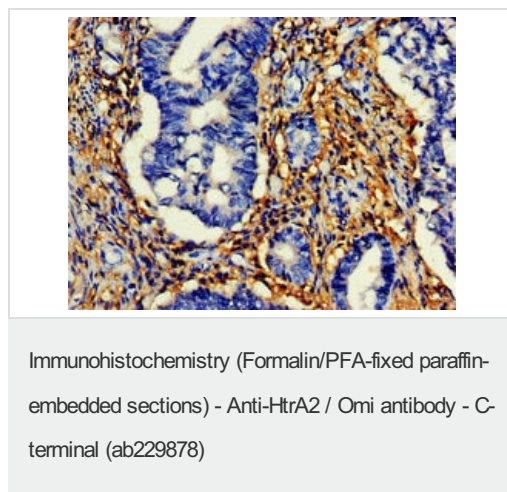
Lane 4 : Raji (human Burkitt's lymphoma cell line) whole cell lysate

Secondary

All lanes : Goat polyclonal to rabbit IgG at 1/50000 dilution

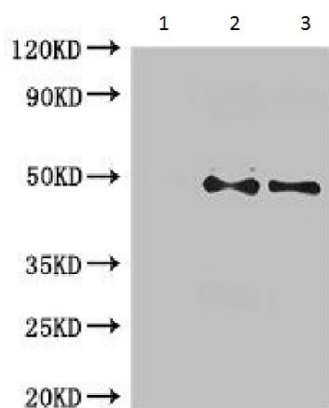
Predicted band size: 49 kDa

Observed band size: 49 kDa



Paraffin-embedded human colon cancer tissue stained for HtrA2 / Omi using ab229878 at 1/200 dilution in immunohistochemical analysis, followed by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum for 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight.



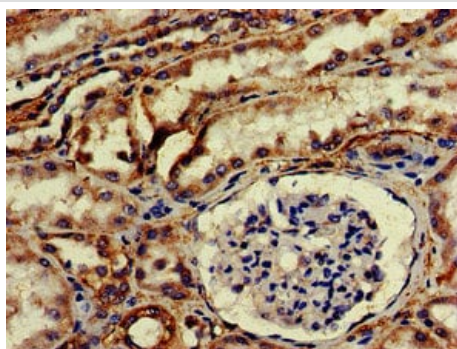
Immunoprecipitation - Anti-HtrA2 / Omi antibody - C-terminal (ab229878)

HtrA2 / Omi was immunoprecipitated from 0.5 mg MCF7 (human breast adenocarcinoma cell line) whole cell lysate using 8 µg of ab229878. Western blot was performed from the immunoprecipitate using ab229878. HRP-conjugated Protein G antibody was used as the secondary antibody at 1/2000 dilution.

Lane 1: 1 µg Control IgG instead of ab229878 in MCF7 whole cell lysate.

Lane 2: ab229878 in MCF7 whole cell lysate.

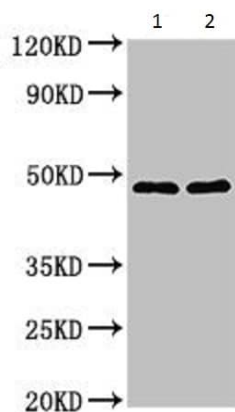
Lane 3: MCF7 whole cell lysate 20 µg (Input).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HtrA2 / Omi antibody - C-terminal (ab229878)

Paraffin-embedded human kidney tissue stained for HtrA2 / Omi using ab229878 at 1/200 dilution in immunohistochemical analysis, followed by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum for 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight.



Western blot - Anti-HtrA2 / Omi antibody - C-terminal (ab229878)

All lanes : Anti-HtrA2 / Omi antibody - C-terminal (ab229878) at 1/500 dilution

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate

Secondary

All lanes : Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 49 kDa

Observed band size: 49 kDa

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

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