

**HTRA2 Antibody**  
**Rabbit mAb**  
**Catalog # AP90588****Specification**

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**HTRA2 Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	<a href="#">O43464</a>
Reactivity	Rat
Clonality	Monoclonal

**Other Names**

HTRA2; HtrA-like serine protease; OMI; PARK13; Protease; PRSS25; Serine protease 25; HtrA serine peptidase 2; Serine proteinase OMI;

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	48841 Da

**HTRA2 Antibody - Additional Information**

Dilution	WB~~1:1000 IHC~~1:100~500 IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human HTRA2
Description	High temperature requirement protein A2 (HtrA2)/Omi is a serine protease with homology to the E. coli HtrA protein (DegP) and is thought to be involved in apoptosis and stress-induced degradation of misfolded proteins. While HtrA2 was originally identified to be present in either the nucleus or endoplasmic reticulum, subsequent studies have shown that it localizes in mitochondria and is released during apoptosis.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**HTRA2 Antibody - Protein Information****Name** HTRA2**Synonyms** OMI, PRSS25

### Function

[Isoform 1]: Serine protease that shows proteolytic activity against a non-specific substrate beta-casein (PubMed: <a href="http://www.uniprot.org/citations/10873535" target="\_blank">10873535</a>). Promotes apoptosis by either relieving the inhibition of BIRC proteins on caspases, leading to an increase in caspase activity; or by a BIRC inhibition-independent, caspase-independent and serine protease activity-dependent mechanism (PubMed: <a href="http://www.uniprot.org/citations/15200957" target="\_blank">15200957</a>). Cleaves BIRC6 and relieves its inhibition on CASP3, CASP7 and CASP9, but it is also prone to inhibition by BIRC6 (PubMed: <a href="http://www.uniprot.org/citations/36758104" target="\_blank">36758104</a>, PubMed: <a href="http://www.uniprot.org/citations/36758105" target="\_blank">36758105</a>). Cleaves THAP5 and promotes its degradation during apoptosis (PubMed: <a href="http://www.uniprot.org/citations/19502560" target="\_blank">19502560</a>).

### Cellular Location

Mitochondrion intermembrane space. Mitochondrion membrane; Single-pass membrane protein  
Note=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

### Tissue Location

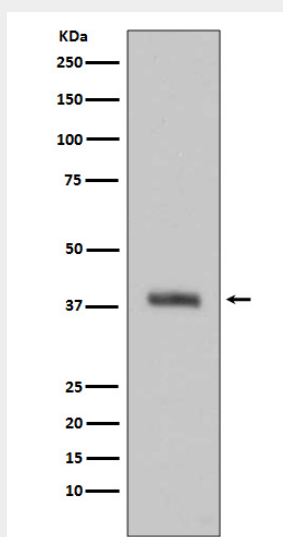
[Isoform 1]: Ubiquitously expressed.

## HTRA2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## HTRA2 Antibody - Images



Western blot analysis of HTRA2 expression in Jurkat cell lysate.