10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HTRA2 Antibody
Rabbit mAb
Catalog # AP90588

Specification

HTRA2 Antibody - Product Information

Application	**WB, IHC, IP**
Primary Accession	O43464
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 orignally 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:10873535). 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:15200957). Cleaves BIRC6 and relieves its inhibition on CASP3, CASP7 and CASP9, but it is also prone to inhibition by BIRC6 (PubMed:36758104, PubMed:36758105). Cleaves THAP5 and promotes its degradation during apoptosis (PubMed:19502560).

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

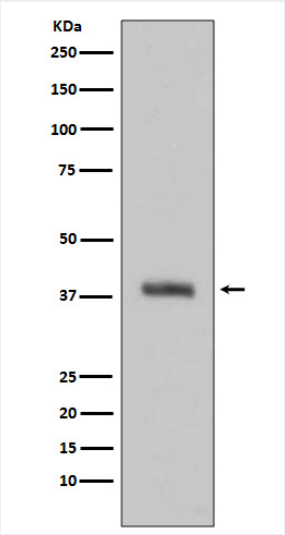
Tissue Location
[Isoform 1]: Ubiquitously expressed.

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 Cytomety
- Cell Culture

HTRA2 Antibody - Images



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Western blot analysis of HTRA2 expression in Jurkat cell lysate.