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HTRA2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13705a

Specification

HTRA2 Antibody (N-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	O43464
Other Accession	NP_659540.1, NP_037379.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**48841**
Antigen Region	**73-102**

HTRA2 Antibody (N-term) - Additional Information

Gene ID 27429

Other Names
Serine protease HTRA2, mitochondrial, High temperature requirement protein A2, HtrA2, Omi stress-regulated endoprotease, Serine protease 25, Serine proteinase OMI, HTRA2, OMI, PRSS25

Target/Specificity
This HTRA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 73-102 amino acids from the N-terminal region of human HTRA2.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HTRA2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HTRA2 Antibody (N-term) - 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

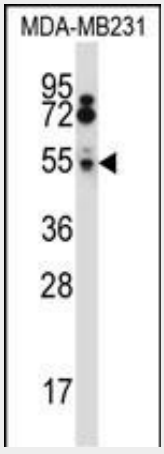
Tissue Location
[Isoform 1]: Ubiquitously expressed.

HTRA2 Antibody (N-term) - 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 (N-term) - Images



HTRA2 Antibody (N-term) (Cat. #AP13705a) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the HTRA2 antibody detected the HTRA2 protein (arrow).

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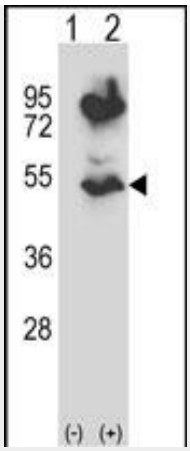
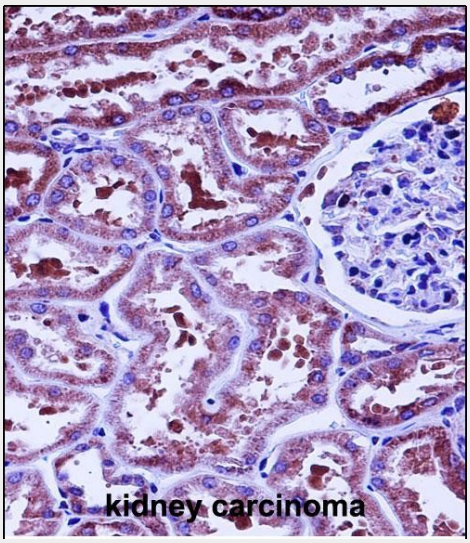


Western blot analysis of HTRA2 (arrow) using rabbit polyclonal HTRA2 Antibody (N-term) (Cat. #AP13705a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the HTRA2 gene.



HTRA2 Antibody (N-term) (Cat. #AP13705a)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of HTRA2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

HTRA2 Antibody (N-term) - Background

This gene encodes a serine protease. The protein has been localized in the endoplasmic reticulum and interacts with an alternatively spliced form of mitogen-activated protein kinase 14. The protein has also been localized to the mitochondria with release to the cytosol following apoptotic stimulus. The protein is thought to induce apoptosis by binding the apoptosis inhibitory protein baculoviral IAP repeat-containing 4. Nuclear localization of this protein has also been observed. Alternate splicing of this gene results in two transcript variants encoding different isoforms. Additional transcript variants have been described, but their full-length sequences have not been determined. [provided by RefSeq].

HTRA2 Antibody (N-term) - References

Zurawa-Janicka, D., et al. Expert Opin. Ther. Targets 14(7):665-679(2010)
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Vande Walle, L., et al. Cell Res. 20(4):421-433(2010)
Hartkamp, J., et al. Mol. Cell 37(2):159-171(2010)
Kruger, R., et al. Neurobiol. Aging (2009) In press :