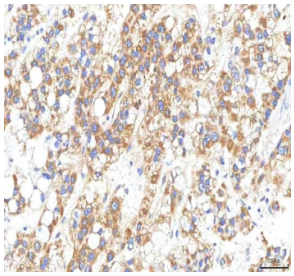
OMI Antibody / HTRA2 (RQ8668)

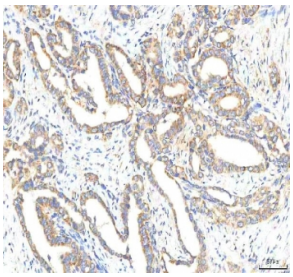
Catalog No.	Formulation	Size
RQ8668	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

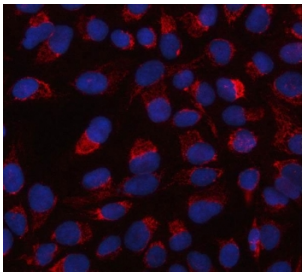
Availability	1-3 days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O43464
Localization	Cytoplasm (Mitochondria, ER)
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This OMI antibody is available for research use only.



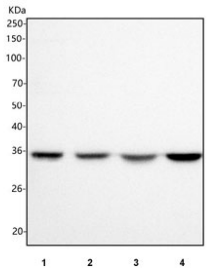
IHC staining of FFPE human liver cancer tissue with OMI antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



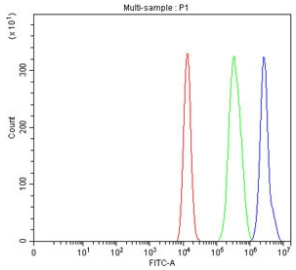
IHC staining of FFPE human thyroid papillary carcinoma tissue with OMI antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human U-2 OS cells with OMI antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) 293T, 2) HT-1080, 3) HeLa and 4) HEL cell lysate with OMI antibody. Predicted molecular weight: 38-49 kDa.



Flow cytometry testing of fixed and permeabilized human HEL cells with OMI antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= OMI antibody.

Description

Serine protease HTRA2, mitochondrial, also called Omi stress-regulated endoprotease (OMI), is an enzyme that in humans is encoded by the HTRA2 gene. 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 multiple transcript variants encoding different isoforms.

Application Notes

Optimal dilution of the OMI antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids R30-E458) was used as the immunogen for the OMI antibody.

Storage

After reconstitution, the OMI Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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