

## Anti-HtrA2/Omi Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

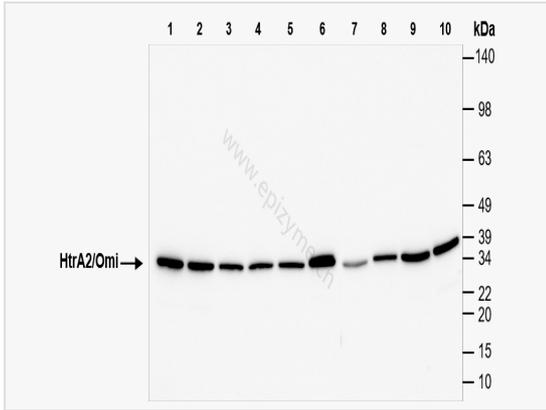
Catalog # R014516

### Product Information

Application	IHC-P/IF (Tissue-P), WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	19D43C52
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic peptide of human HtrA2/Omi
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-HtrA2/Omi Rabbit mAb [19D43C52] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	High temperature requirement protein A2, HTRA 2, HtrA like serine protease, HtrA serine peptidase 2, HtrA, E. coli, homolog of, 2, HtrA2, HTRA2_HUMAN, mitochondrial, Omi stress regulated endoprotease, Omi stress-regulated endoprotease, PARK 13, PARK13, Protease serine 25, PRSS 25, PRSS25, Serine protease 25, Serine protease HTRA2, Serine protease HTRA2 mitochondrial, Serine protease htra2 mitochondrial precursor, Serine protease omi, Serine proteinase OMI.
Calculated MW	Calculated MW: 48 kDa; Observed MW: 36 kDa
Uniprot ID	O43464
Gene ID	27429
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 multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]
Cellular Location	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.
Tissue Location	Isoform 1 is ubiquitous. Isoform 2 is expressed predominantly in the kidney, colon and thyroid.



Western Blot - Anti-HtrA2/Omi Rabbit mAb [19D43C52]

All lanes: R014516 at 1:5,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 7: Mouse muscle whole tissue lysates

Lane 8: Rat brain whole tissue lysates

Lane 9: Rat heart whole tissue lysates

Lane 10: Rat kidney whole tissue lysates

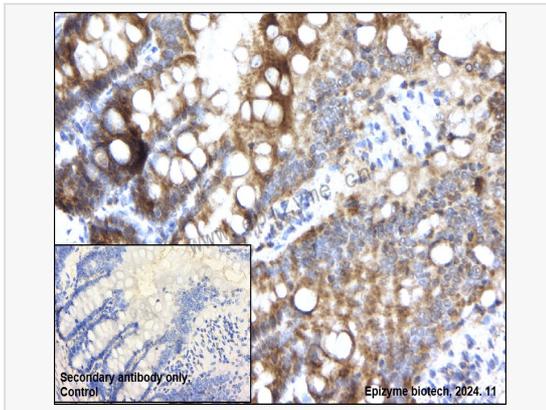
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 48 kDa

Observed band size: 36 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-HtrA2/Omi Rabbit mAb [19D43C52]

Sample: Paraformaldehyde-fixed, paraffin embedded rat colon tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014516 at 1:200 dilution

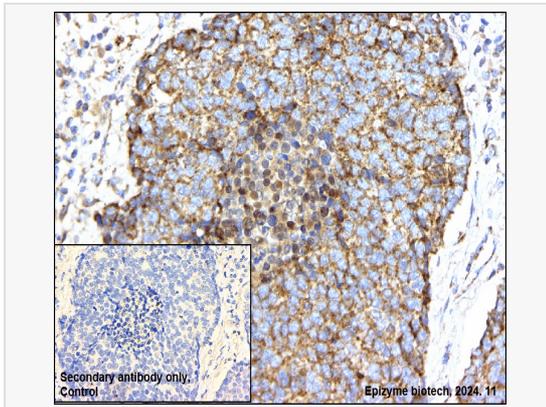
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-HtrA2/Omi Rabbit mAb [19D43C52]

Sample: Paraformaldehyde-fixed, paraffin embedded Human lung cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014516 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.