Rabbit HtrA2 Polyclonal Antibody | anti-HtrA2 antibody

Phospho-HtrA2 (Ser212) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329811	**Rabbit**	**Human, Mouse, RatPredicted Reactivity: Pig (83%), Bovine (83%), Horse (83%), Sheep (83%), Rabbit (83%), Dog (100%)**	**ELISA, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

HtrA2; Polyclonal Antibody; Phospho-HtrA2 (Ser212) Antibody; High temperature requirement protein A2; HTRA 2; HtrA like serine protease; HtrA serine peptidase 2; HtrA; E Coli; homolog of; 2; 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; anti-HtrA2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (83%), Bovine (83%), Horse (83%), Sheep (83%), Rabbit (83%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-HtrA2 (Ser212) Antibody detects endogenous levels of HtrA2 only when phosphorylated at Ser212. Tissue Specificity: Isoform 1 is ubiquitous. Isoform 2 is expressed predominantly in the kidney, colon and thyroid.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-HtrA2 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HtrA2 around the phosphorylation site of Ser212.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Autoproteolytically activated.
Subunit Structure	Homotrimer. Interacts with MXI2. Interacts with THAP5 under apoptotic conditions. The mature protein, but not the precursor, binds to BIRC2/c-IAP1, BIRC3/c-IAP2 and XIAP/BIRC4. Interacts with BIRC6/bruce.
Similarity	The mature N-terminus is involved in the interaction with XIAP.The PDZ domain mediates interaction with MXI2.Belongs to the peptidase S1C family.
Subcellular 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.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IHC (Immunohistochemisry)
At 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohiostchemistry)
Staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

WB (Western Blot)
Western blot analysis of HtrA2 (Phospho-Ser212) using UV treated A2780 whole cell lysates.-/+ means absence or presence of N peptideï¼ˆnon-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-HtrA2 antibody	Serine protease that shows proteolytic activity against a non-specific substrate beta-casein. Promotes or induces cell death either by direct binding to and inhibition of BIRC proteins (also called inhibitor of apoptosis proteins, IAPs), leading to an increase in caspase activity, or by a BIRC inhibition-independent, caspase-independent and serine protease activity-dependent mechanism. Cleaves THAP5 and promotes its degradation during apoptosis. Isoform 2 seems to be proteolytically inactive.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7019477
NCBI GeneID	27429
NCBI Accession #	NP_037379.1
NCBI GenBank Nucleotide #	NM_013247.4
UniProt Accession #	O43464; Q9HBZ4; Q9P0Y3; Q9P0Y4
Molecular Weight	48,841 Da
NCBI Official Full Name	serine protease HTRA2, mitochondrial isoform 1 preproprotein
NCBI Official Synonym Full Names	HtrA serine peptidase 2
NCBI Official Symbol	HTRA2
NCBI Official Synonym Symbols	OMI; PARK13; PRSS25
NCBI Protein Information	serine protease HTRA2, mitochondrial; serine protease 25; protease, serine, 25; serine proteinase OMI; HtrA-like serine protease; Omi stress-regulated endoprotease; high temperature requirement protein A2
UniProt Protein Name	Serine protease HTRA2, mitochondrial
UniProt Gene Name	**HTRA2**
UniProt Synonym Gene Names	OMI; PRSS25; HtrA2
UniProt Entry Name	HTRA2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.