

HTRA2 (Phospho Ser142) Rabbit pAb

CatalogNo: YP1118

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IHC, IF, ELISA

MW

- 49kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IHC 1:100-1:300

ELISA 1:40000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho-peptide around the phosphorylation site of human HtrA2 (phospho Ser142)

Specificity Phospho-HtrA2 (S142) Polyclonal Antibody detects endogenous levels of HtrA2 protein only when phosphorylated at S142. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): PAsPR

Target Information

Gene name HTRA2

Protein Name Serine protease HTRA2 mitochondrial

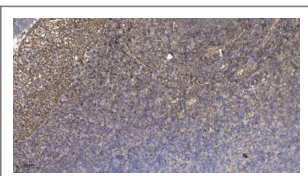
Organism	Gene ID	UniProt ID
Human	27429 ;	O43464 ;
Mouse	64704 ;	Q9JIY5 ;

Cellular Localization Mitochondrion intermembrane space. Mitochondrion membrane ; Single-pass membrane protein . 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.; [Isoform 1]: Endoplasmic reticulum .

Tissue specificity [Isoform 1]: Ubiquitously expressed.

Function Catalytic activity: Cleavage of non-polar aliphatic amino-acids at the P1 position , with a preference for Val , Ile and Met. At the P2 and P3 positions , Arg is selected most strongly with a secondary preference for other hydrophilic residues. ,Disease: Defects in HTRA2 are the cause of Parkinson disease type 13 (PARK13) [MIM:610297 , 168600]. Parkinson disease (PD) is a complex , multifactorial disorder that typically manifests after the age of 50 years , although early-onset cases (before 50 years) are known. PD generally arises as a sporadic condition but is occasionally inherited as a simple mendelian trait. Although sporadic and familial PD are very similar , inherited forms of the disease usually begin at earlier ages and are associated with atypical clinical features. PD is characterized by bradykinesia , resting tremor , muscular rigidity and postural instability , as well as by a clinically significant response to treatment with levodopa. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated proteins) , in surviving neurons in various areas of the brain. ,Domain: The mature N-terminus is involved in the interaction with XIAP. ,Domain: The PDZ domain mediates interaction with MXI2. ,Function: 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. Isoform 2 seems to be proteolytically inactive. ,PTM: Autoproteolytically activated. ,similarity: Belongs to the peptidase S1B family. ,similarity: Contains 1 PDZ (DHR) domain. ,subcellular location: 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. ,subunit: Homotrimer. Interacts with MXI2. The mature protein , but not the precursor , binds to BIRC2 , BIRC3 and XIAP. ,tissue specificity: Isoform 1 is ubiquitous; isoform 2 is expressed predominantly in the kidney , colon and thyroid. ,

Validation Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH 9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 30min).

| Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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