HTRA2 Mouse mAb

CatalogNo: YM1395

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB

MW
- 49kD (Calculated)

Recommended Dilution Ratios

WB 1:500

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.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Recombinant human HtrA2/Omi protein.
Specificity	This antibody detects endogenous levels of HtrA2/Omi and does not cross-react with related proteins.

Target Information

Gene name	HtrA2/Omi

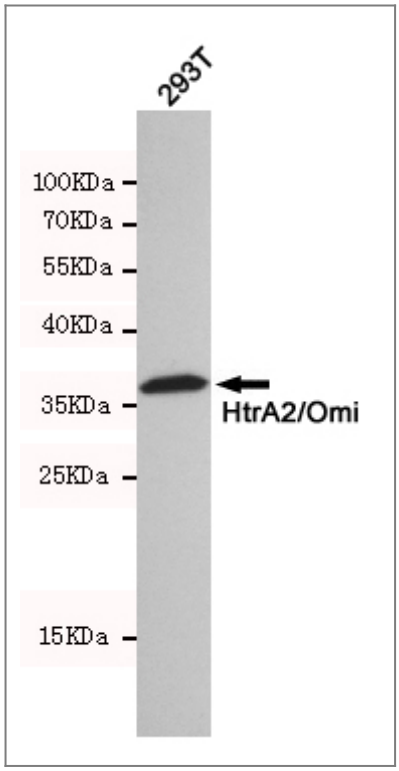
Protein Name	Organism	Gene ID	UniProt ID
	Human	27429;	O43464;
	Mouse		Q9JIY5;

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



Western blot detection of HtrA2/Omi in 293T cell lysates using HtrA2/Omi mouse mAb(dilution 1:500).Predicted band size:49kDa.Observed band size:36kDa.

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
HTRA2 Mouse mAb