

# Human HTRA2/OMI (S306A) antibody

Catalog Number: AOH0607

## PRODUCT INFORMATION

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**Catalog number**

AOH0607

**Clone No.**

1B3

**Product type**

Monoclonal Antibody

**UnitProt No.**

O43464

**NCBI Accession No.**

NP\_037379

**Alternative Names**

HtrA serine peptidase 2, High temperature requirement protein A2, HtrA2, Omi stress-regulated endoprotease, Serine protease 25, Serine proteinase OMI, PRSS25, OMI, PARK13

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human HtrA2/Omi (134-458aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB

**Usage**

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

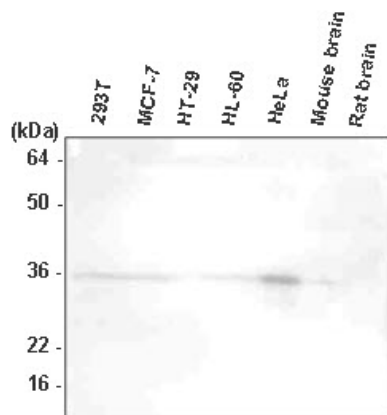
HtrA2/Omi is a mammalian serine protease at high temperatures and a chaperone at low temperature. The full-length HtrA2 is synthesized as a precursor protein and then targeted to the mitochondria where it is matured by the removal of N-terminal 133 residues. Mature HtrA2 consists of a putative transmembrane domain; an inhibitor of apoptosis protein (IAP) -binding motif; a single C-terminal PDZ domain that mediates protein-protein interactions. Recently, HtrA2 has known to contribute both to caspase-dependent and caspase-independent cell death.

### General References

- Miller L., et al., (1999) Trends Cell Biol. 9:323-28.  
Zumbrunn J., et al., (1996) FABS Lett. 398:187-92.  
Gui-Ying N., et al., (2003) Biochem. J. 371:39-48.

## DATA

### Western blot analysis (WB)



The cell lysates of 293T, MCF7, HT-29, HL-60, HeLa and tissue lysates of mouse brain, rat brain were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HtrA2/Omi antibody (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.