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HTRA2 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant HTRA2.
Catalog # AT2459a

Product Information

Application	WB, IF, E
Primary Accession	O43464
Other Accession	BC000096
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3G5
Calculated MW	48841

Additional Information

Gene ID	27429
Other Names	Serine protease HTRA2, mitochondrial, High temperature requirement protein A2, HtrA2, Omi stress-regulated endoprotease, Serine protease 25, Serine proteinase OMI, HTRA2, OMI, PRSS25
Target/Specificity	HTRA2 (AAH00096, 359 a.a. ~ 458 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	HTRA2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

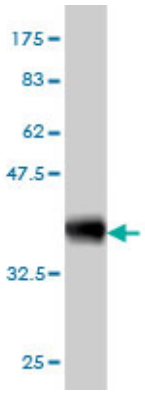
Background

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 two transcript variants encoding different isoforms. Additional transcript variants have been described, but their full-length sequences have not been determined.

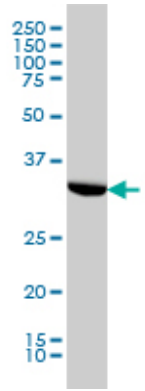
References

The mitochondrial serine protease HtrA2/Omi cleaves RIP1 during apoptosis of Ba/F3 cells induced by growth factor withdrawal. Vande Walle L, et al. Cell Res, 2010 Apr. PMID 20125124.The Wilms' tumor suppressor protein WT1 is processed by the serine protease HtrA2/Omi. Hartkamp J, et al. Mol Cell, 2010 Jan 29. PMID 20122399.A large-scale genetic association study to evaluate the contribution of Omi/HtrA2 (PARK13) to Parkinson's disease. Kr?ger R, et al. Neurobiol Aging, 2009 Dec 23. PMID 20036034.Mitochondrial quality control: insights on how Parkinson's disease related genes PINK1, parkin, and Omi/HtrA2 interact to maintain mitochondrial homeostasis. Dagda RK, et al. J Bioenerg Biomembr, 2009 Dec. PMID 20012177.Novel mitochondrial substrates of omi indicate a new regulatory role in neurodegenerative disorders. Johnson F, et al. PLoS One, 2009 Sep 18. PMID 19763263.

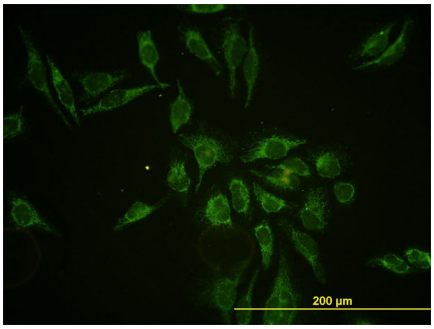
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

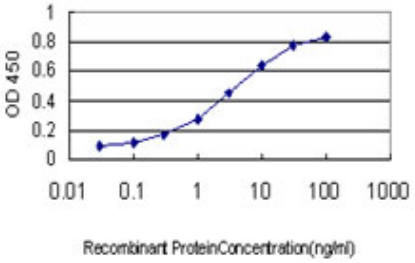


HTRA2 monoclonal antibody (M03), clone 3G5 Western Blot analysis of HTRA2 expression in HeLa ((Cat # AT2459a)



Immunofluorescence of monoclonal antibody to HTRA2 on HeLa cell. [antibody concentration 10 ug/ml]

Detection limit for recombinant GST tagged HTRA2 is approximately 0.03ng/ml as a capture antibody.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.