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CASP9 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CASP9.
Catalog # AT1404a

Product Information

Application	WB, IF, E
Primary Accession	P55211
Other Accession	BC002452
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3B8-4G2
Calculated MW	46281

Additional Information

Gene ID	842
Other Names	Caspase-9, CASP-9, Apoptotic protease Mch-6, Apoptotic protease-activating factor 3, APAF-3, ICE-like apoptotic protease 6, ICE-LAP6, Caspase-9 subunit p35, Caspase-9 subunit p10, CASP9, MCH6
Target/Specificity	CASP9 (AAH02452.1, 1 a.a. ~ 416 a.a) full-length 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	CASP9 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

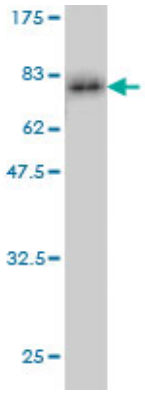
Background

This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein is processed by caspase APAF1; this step is thought to be one of the earliest in the caspase activation cascade. Alternative splicing results in two transcript variants which encode different isoforms.

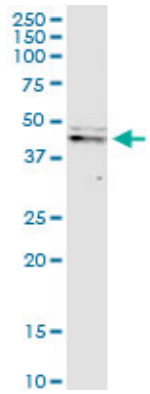
References

Influence of caspases 8 and 9 gene promoter polymorphism on prostate cancer susceptibility and early development of hormone refractory prostate cancer. Kesarwani P, et al. BJU Int, 2010 Aug 27. PMID 20804486.Polymorphisms in the caspase genes and the risk of lung cancer. Lee SY, et al. J Thorac Oncol, 2010 Aug. PMID 20661084.Fat intake interacts with polymorphisms of Caspase9, FasLigand and PPARgamma apoptotic genes in modulating Crohn's disease activity. Ferreira P, et al. Clin Nutr, 2010 Jul 20. PMID 20650551.A large-scale candidate gene approach identifies SNPs in SOD2 and IL13 as predictive markers of response to preoperative chemoradiation in rectal cancer. Ho-Pun-Cheung A, et al. Pharmacogenomics J, 2010 Jul 20. PMID 20644561.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

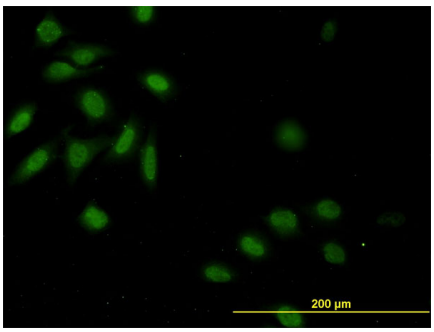
Images



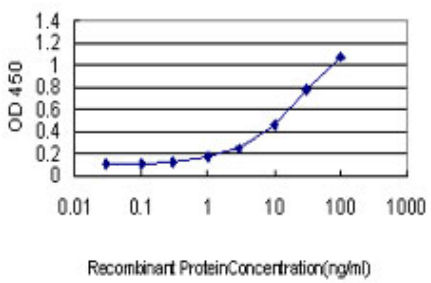
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (71.5 KDa) .



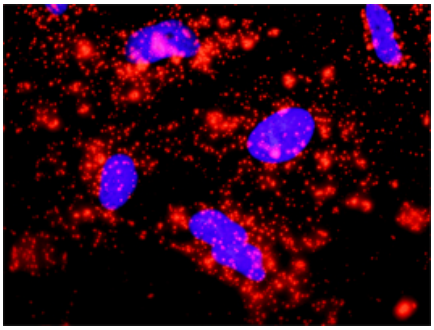
CASP9 monoclonal antibody (M01), clone 3B8-4G2.
Western Blot analysis of CASP9 expression in Hela S3 NE.



Immunofluorescence of monoclonal antibody to CASP9 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged CASP9 is approximately 3ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between XIAP and CASP9 HeLa cells were stained with anti-XIAP rabbit purified polyclonal 1:1200 and anti-CASP9 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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