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CASP14 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CASP14.
Catalog # AT1403a

Product Information

Application	WB, IF, E
Primary Accession	P31944
Other Accession	NM_012114
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4C9
Calculated MW	27680

Additional Information

Gene ID	23581
Other Names	Caspase-14, CASP-14, 3422-, Caspase-14 subunit p19, Caspase-14 subunit p10, CASP14
Target/Specificity	CASP14 (NP_036246, 133 a.a. ~ 242 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	CASP14 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

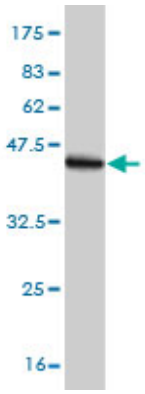
Background

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 caspase has been shown to be processed and activated by caspase 8 and caspase 10 in vitro, and by anti-Fas agonist antibody or TNF-related apoptosis inducing ligand in vivo. The expression and processing of this caspase may be involved in keratinocyte terminal differentiation, which is important for the formation of the skin barrier.

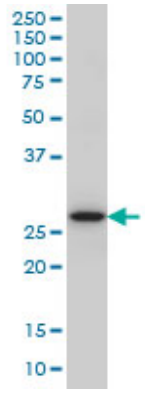
References

Mutational analysis of caspase genes in prostate carcinomas. Kim MS, et al. APMIS, 2010 Apr. PMID 20402676.New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.Purification and characterization of active caspase-14 from human epidermis and development of the cleavage site-directed antibody. Hibino T, et al. J Cell Biochem, 2010 Feb 15. PMID 19960512.Association between genetic variants in VEGF, ERCC3 and occupational benzene haematotoxicity. Hosgood HD 3rd, et al. Occup Environ Med, 2009 Dec. PMID 19773279.Function of caspase-14 in trophoblast differentiation. White LJ, et al. Reprod Biol Endocrinol, 2009 Sep 14. PMID 19747408.

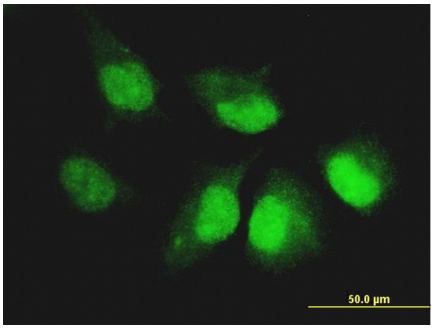
Images



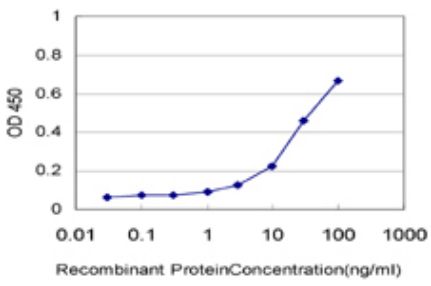
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



CASP14 monoclonal antibody (M01), clone 4C9 Western Blot analysis of CASP14 expression in MCF-7 ((Cat # AT1403a)



Immunofluorescence of monoclonal antibody to CASP14 on HeLa cell. [antibody concentration 15 ug/ml]



Detection limit for recombinant GST tagged CASP14 is approximately 1ng/ml as a capture antibody.