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CASP10 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CASP10.
Catalog # AT1401a

Specification

CASP10 Antibody (monoclonal) (M01) - Product Information

Application	**E**
Primary Accession	Q92851
Other Accession	NM_032974
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**58951**

CASP10 Antibody (monoclonal) (M01) - Additional Information

Gene ID 843

Other Names
Caspase-10, CASP-10, Apoptotic protease Mch-4, FAS-associated death domain protein interleukin-1B-converting enzyme 2, FLICE2, ICE-like apoptotic protease 4, Caspase-10 subunit p23/17, Caspase-10 subunit p12, CASP10, MCH4

Target/Specificity
CASP10 (NP_116756, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
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
CASP10 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

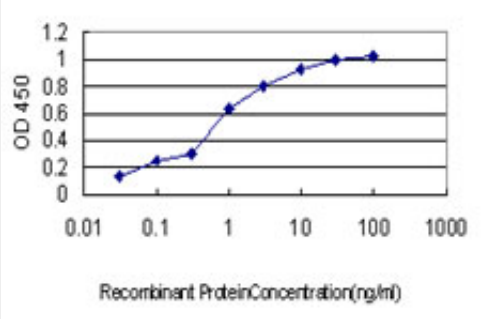
CASP10 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

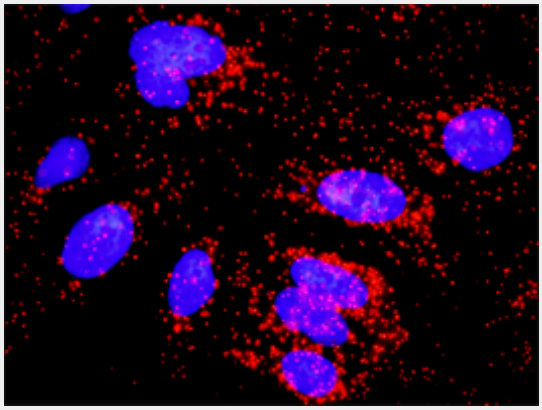
- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CASP10 Antibody (monoclonal) (M01) - Images



Detection limit for recombinant GST tagged CASP10 is approximately 0.03ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between CFLAR and CASP10. HeLa cells were stained with anti-CFLAR rabbit purified polyclonal 1:1200 and anti-CASP10 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

CASP10 Antibody (monoclonal) (M01) - Background

This gene encodes a protein which is 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 cleaves and activates caspases 3 and 7, and the protein itself is processed by caspase 8. Mutations in this gene are associated with apoptosis defects seen in type II autoimmune lymphoproliferative syndrome. Three alternatively spliced transcript variants encoding different isoforms have been described for this gene.

CASP10 Antibody (monoclonal) (M01) - References

Polymorphisms in the caspase genes and the risk of lung cancer. Lee SY, et al. J Thorac Oncol, 2010 Aug. PMID 20661084.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.A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000.Mutational analysis of caspase genes in prostate carcinomas. Kim MS, et al. APMIS, 2010 Apr. PMID 20402676.Mutational analysis of CASP10 gene in colon, breast, lung and hepatocellular carcinomas. Oh JE, et al. Pathology, 2010 Jan. PMID 20025484.