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CASP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CASP1.

Catalog # AT1400a

Specification

CASP1 Antibody (monoclonal) (M01) - Product Information

Application	**WB, IHC, E**
Primary Accession	P29466
Other Accession	BC062327
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**45159**

CASP1 Antibody (monoclonal) (M01) - Additional Information

Gene ID 834

Other Names
Caspase-1, CASP-1, Interleukin-1 beta convertase, IL-1BC, Interleukin-1 beta-converting enzyme, ICE, IL-1 beta-converting enzyme, p45, Caspase-1 subunit p20, Caspase-1 subunit p10, CASP1, IL1BC, IL1BCE

Target/Specificity
CASP1 (AAH62327, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000
IHC~~1:100~500
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
CASP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

CASP1 Antibody (monoclonal) (M01) - Protocols

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

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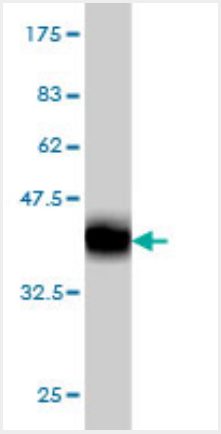
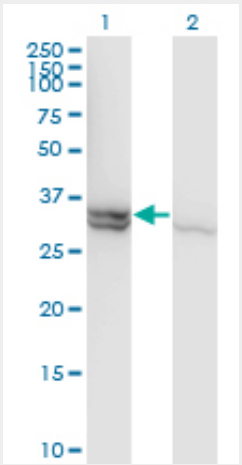
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CASP1 Antibody (monoclonal) (M01) - Images



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



Western Blot analysis of CASP1 expression in transfected 293T cell line by CASP1 monoclonal antibody (M01), clone 3D2.

Lane 1: CASP1 transfected lysate(35 KDa).
Lane 2: Non-transfected lysate.

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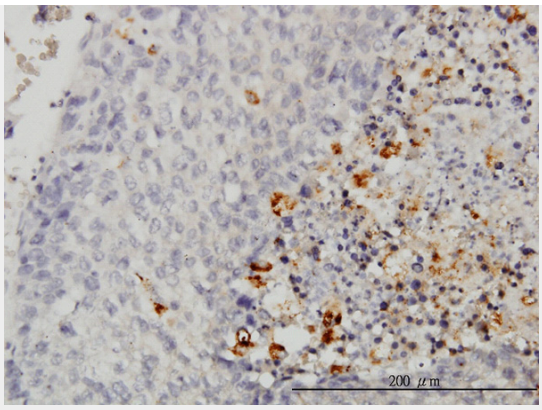
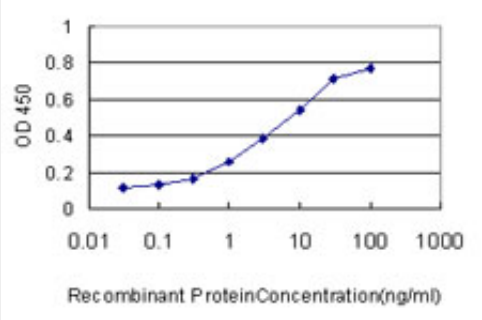


Immunoperoxidase of monoclonal antibody to CASP1 on formalin-fixed paraffin-embedded human hepatocellular carcinoma. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged CASP1 is approximately 0.1ng/ml as a capture antibody.

CASP1 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 2 subunits, large and small, that dimerize to form the active enzyme. This gene was identified by its ability to proteolytically cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the processes such as inflammation, septic shock, and wound healing. This gene has been shown to induce cell apoptosis and may function in various developmental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative splicing of this gene results in five transcript variants encoding distinct isoforms.

CASP1 Antibody (monoclonal) (M01) - References

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.Interleukin-9 polymorphism in infants with respiratory syncytial virus infection: an opposite effect in boys and girls. Schuurhof A, et al. Pediatr Pulmonol, 2010 Jun. PMID 20503287.Common polymorphisms in ITGA2, PON1 and THBS2 are associated with coronary atherosclerosis in a candidate gene association study of the Chinese Han population. Wang Y, et al. J Hum Genet, 2010 Aug. PMID 20485444.Mutational analysis of caspase genes in prostate carcinomas. Kim MS, et al. APMIS, 2010 Apr. PMID 20402676.Cleavage of sphingosine kinase 2 by caspase-1 provokes its release from apoptotic cells. Weigert A, et al. Blood, 2010 Apr 29. PMID 20197547.