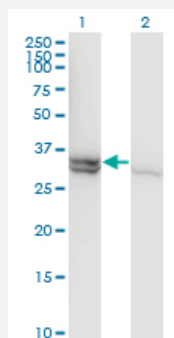


CASP1 monoclonal antibody (M01), clone 3D2

Catalog # H00000834-M01

Size 100 ug

Applications

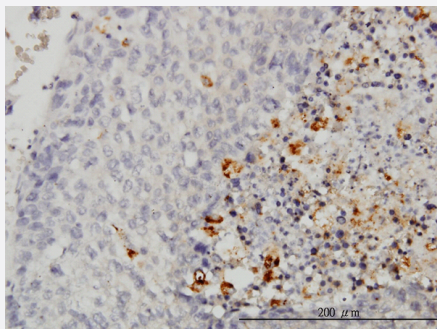


Western Blot (Transfected lysate)

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

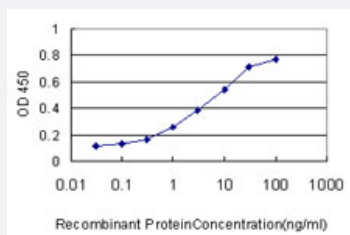
Lane 1: CASP1 transfected lysate(35 KDa).

Lane 2: Non-transfected lysate.



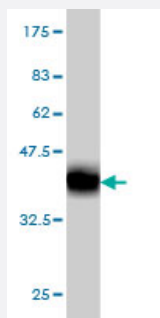
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CASP1.
Immunogen	CASP1 (AAH62327, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MADKVLKEKRKLFIRSMGEAPQAVQDNPAMPTSSGSEGNVKLCSLEEAQRWVKQKSAEYIPMD KSSRTRLALIICNEEFDSIPRRTGAEVDITGMTMLL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (54)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

● Western Blot (Transfected lysate)

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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

Gene Info — CASP1

Entrez GeneID [834](#)

GeneBank Accession# [BC062327](#)

Protein Accession# [AAH62327](#)

Gene Name CASP1

Gene Alias ICE, IL1BC, P45

Gene Description caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)

Omim ID [147678](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

CASP1 nirs variant 1|IL1B-convertase|caspase 1|caspase 1, apoptosis-related cysteine protease (interleukin 1, beta, convertase)|interleukin 1-B converting enzyme|interleukin 1-beta convertase

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer Disease](#)
- [Asthma](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Infant](#)
- [Inflammation](#)
- [Leukemia](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)

- [Memory](#)
- [Myocardial Infarction](#)
- [Neovascularization](#)
- [Neuropsychological Tests](#)
- [Occupational Diseases](#)
- [Paratyphoid Fever](#)
- [Prostatic Neoplasms](#)
- [Respiratory Syncytial Virus Infections](#)
- [Typhoid Fever](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)