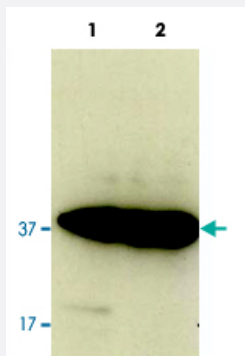


CASP3 monoclonal antibody, clone SB71b

Catalog # MAB8216

Size 100 ug

Applications



Western Blot (Cell lysate)

Jurkat cells stimulated with (Lane 1) or without (Lane 2) anti-DR5 antibody. Cell lysate was stained with CASP3 monoclonal antibody, clone SB71b (Cat # MAB8216)-HRP at a 1 :1000 dilution.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant CASP3.
Immunogen	Recombinant protein corresponding to human CASP1.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG2a
Recommend Usage	Western Blot (1-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 100 mM BBS, pH 8.0
Storage Instruction	Store at 4°C.

Applications

- Western Blot (Cell lysate)

Jurkat cells stimulated with (Lane 1) or without (Lane 2) anti-DR5 antibody. Cell lysate was stained with CASP3 monoclonal antibody, clone SB71b (Cat # MAB8216)-HRP at a 1 :1000 dilution.

Gene Info — CASP3

Entrez GeneID

[836](#)

Gene Name

CASP3

Gene Alias

CPP32, CPP32B, SCA-1

Gene Description

caspase 3, apoptosis-related cysteine peptidase

Omim ID

[600636](#)

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 two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein. [provided by RefSeq]

Other Designations

OTTHUMP00000165054|PARP cleavage protease|SREBP cleavage activity 1|Yama|apopain|caspase 3|caspase 3, apoptosis-related cysteine protease|cysteine protease CPP32|procaspase3

Publication Reference

- [The enigma of caspase-2: the laymen's view.](#)

Krumschnabel G, Sohm B, Bock F, Manzl C, Villunger A.

Cell Death and Differentiation 2008 Nov; 16(2):195.

- [DAP kinase and DRP-1 mediate membrane blebbing and the formation of autophagic vesicles during programmed cell death.](#)

Inbal B, Bialik S, Sabanay I, Shani G, Kimchi A.

The Journal of Cell Biology 2002 Apr; 157(3):455.

Application: WB-Tr, Human, HeLa cells

- [Caspase-3 is required for DNA fragmentation and morphological changes associated with apoptosis.](#)

Janicke RU, Sprengart ML, Wati MR, Porter AG.

The Journal of Biological Chemistry 1998 Apr; 273(16):9357.

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Apoptosis](#)
- [Colorectal cancer](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [MAPK signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [p53 signaling pathway](#)
- [Pathways in cancer](#)

Disease

- [Adenocarcinoma](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Clubfoot](#)

- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [NARP](#)
- [Neoplasm Metastasis](#)
- [Neoplasms](#)
- [Neovascularization](#)

- [Occupational Diseases](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Small Cell Lung Carcinoma](#)
- [Stomach Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)