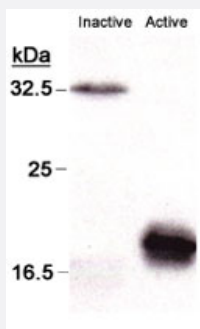


CASP3 monoclonal antibody, clone CPP32 4-1-18

Catalog # MAB2360

Size 200 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of CASP3 from HEK293 cell extract using CASP3 monoclonal antibody, clone CPP32 4-1-18 (Cat # MAB2360). Lanes 1 and 2 contain inactive and active CASP3, respectively.

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant CASP3.
Immunogen	Recombinant protein corresponding to full length human CASP3.
Host	Mouse
Reactivity	Human, Rat
Form	Liquid
Isotype	IgG2a, kappa
Recommend Usage	Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In buffer containing 0.09% sodium azide
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of CASP3 from HEK293 cell extract using CASP3 monoclonal antibody, clone CPP32 4-1-18 (Cat # MAB2360). Lanes 1 and 2 contain inactive and active CASP3, respectively.

Gene Info — CASP3

Entrez GeneID	836
Protein Accession#	P42574
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

- [Tumor cell-selective regulation of NOXA by c-MYC in response to proteasome inhibition.](#)

Nikiforov MA, Riblett M, Tang WH, Gratchouk V, Zhuang D, Fernandez Y, Verhaegen M, Varambally S, Chinnaiyan AM, Jakubowiak AJ, Soengas MS.

PNAS 2007 Dec; 104(49):19488.

Application: WB-Tr, Human, SK-Mel-103 cells

- [Caspase-3-dependent cleavage of Bcl-2 promotes release of cytochrome c.](#)

Kirsch DG, Doseff A, Chau BN, Lim DS, de Souza-Pinto NC, Hansford R, Kastan MB, Lazebnik YA, Hardwick JM.

The Journal of Biological Chemistry 1999 Jul; 274(30):21155.

Application: WB-Ce, Human, HEK 293 cells

- [Oncogene-dependent apoptosis is mediated by caspase-9.](#)

Fearnhead HO, Rodriguez J, Govek EE, Guo W, Kobayashi R, Hannon G, Lazebnik YA.

PNAS 1998 Nov; 95(23):13664.

Application: WB-Ce, Human, IMR-90-E1A cells

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](#)