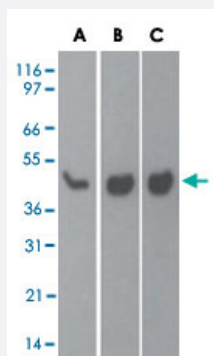


CASP7 monoclonal antibody, clone 25B881.1

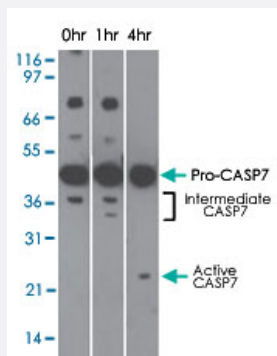
Catalog # MAB6243 Size 100 ug

Applications



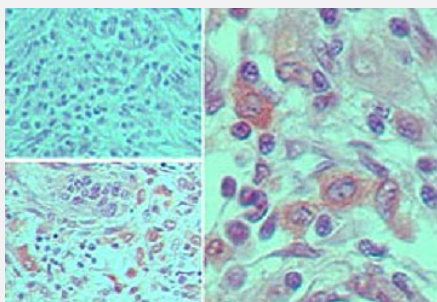
Western Blot (Tissue lysate)

Western blot analysis of CASP7 in A) human brain, B) mouse brain and C) rat brain lysate using CASP7 monoclonal antibody, clone 25B881.1 (Cat #MAB6243) at 1 ug/mL .



Western Blot (Cell lysate)

Western blot analysis of CASP7 in Jurkat cells using CASP7 monoclonal antibody, clone 25B881.1 (Cat #MAB6243) at 1 ug/mL. Cells were treated with 2 uM staurosporine for different time periods. CASP7 activation is detected in western blots by the presence of CASP7 cleavage fragments. The antibody detected both pro (full-length) and active (cleaved) CASP7, depending on the treatment time points. A basal level of endogenous intermediate CASP7 can be seen in untreated Jurkat cells.



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

Immunohistochemical analysis of CASP7 in formalin-fixed, paraffin-embedded human cervix tumor tissue using an isotype control (top left) and CASP7 monoclonal antibody, clone 25B881.1 (Cat #MAB6243) (bottom left, right) at 5 ug/mL .

Specification

Product Description

Mouse monoclonal antibody raised against recombinant CASP7.

Immunogen	Recombinant protein corresponding to human CASP7.
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Liquid
Isotype	IgG1
Recommend Usage	Western Blot (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°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 (Tissue lysate)

Western blot analysis of CASP7 in A) human brain, B) mouse brain and C) rat brain lysate using CASP7 monoclonal antibody, clone 25B881.1 (Cat #MAB6243) at 1 ug/mL .

- Western Blot (Cell lysate)

Western blot analysis of CASP7 in Jurkat cells using CASP7 monoclonal antibody, clone 25B881.1 (Cat #MAB6243) at 1 ug/mL. Cells were treated with 2 uM staurosporine for different time periods. CASP7 activation is detected in western blots by the presence of CASP7 cleavage fragments. The antibody detected both pro (full-length) and active (cleaved) CASP7, depending on the treatment time points. A basal level of endogenous intermediate CASP7 can be seen in untreated Jurkat cells.

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

Immunohistochemical analysis of CASP7 in formalin-fixed, paraffin-embedded human cervix tumor tissue using an isotype control (top left) and CASP7 monoclonal antibody, clone 25B881.1 (Cat #MAB6243) (bottom left, right) at 5 ug/mL .

Gene Info — CASP7

Entrez GeneID	840
Protein Accession#	NP_001081408
Gene Name	CASP7

Gene Alias	CMH-1, ICE-LAP3, MCH3
Gene Description	caspase 7, apoptosis-related cysteine peptidase
Omim ID	601761
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. The precursor of this caspase is cleaved by caspase 3 and 10. It is activated upon cell death stimuli and induces apoptosis. Alternative splicing results in four transcript variants, encoding three distinct isoforms. [provided by RefSeq]
Other Designations	ICE-like apoptotic protease 3 Lice2 alpha/beta/gamma OTTHUMP00000020510 OTTHUMP00000020511 OTTHUMP00000020512 OTTHUMP00000020514 apoptotic protease MCH-3 caspase 7 caspase 7 isoform delta caspase 7, apoptosis-related cysteine protease

Publication Reference

- [YWHAZ amplification/overexpression defines aggressive bladder cancer and contributes to chemo-/radio-resistance by suppressing caspase-mediated apoptosis.](#)

Yu CC, Li CF, Chen IH, Lai MT, Lin ZJ, Korla PK, Chai CY, Ko G, Chen CM, Hwang T, Lee SC, Sheu JJ.

The Journal of Pathology 2019 Aug; 248(4):476.

Application: WB-Tr, Human, RT4 cells

- [Caspases: the executioners of apoptosis.](#)

Cohen GM.

The Biochemical Journal 1997 Aug; 326 (Pt 1):1.

- [Mch3, a novel human apoptotic cysteine protease highly related to CPP32.](#)

Fernandes-Alnemri T, Takahashi A, Armstrong R, Krebs J, Fritz L, Tomaselli KJ, Wang L, Yu Z, Croce CM, Salveson G, et al..

Cancer Research 1995 Dec; 55(24):6045.

Pathway

- [Apoptosis](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer Disease](#)
- [Amnesia](#)
- [Arthritis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cognition Disorders](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Sclerosis](#)

- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Neuropsychological Tests](#)
- [Occupational Diseases](#)
- [Prostatic Neoplasms](#)
- [Small Cell Lung Carcinoma](#)
- [Stomach Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)