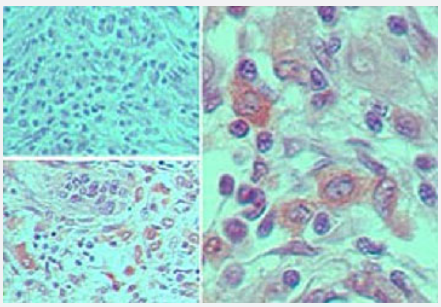
# CASP7 monoclonal antibody, clone 25B881.1

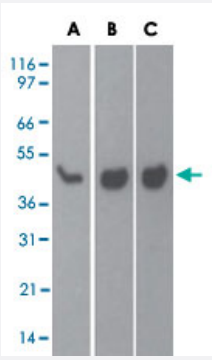
Catalog # MAB6243 Size 100 ug

## Applications



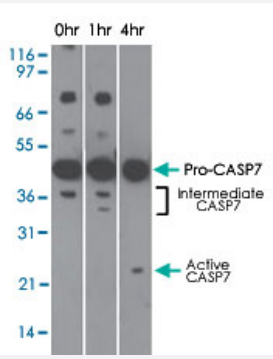
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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 .




### 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 see in untreated Jurkat cells.

## Specification

| | |
|---|---|
| **Product Description** | Mouse monoclonal antibody raised against recombinant CASP7. |

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| | |
|---|---|
| **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)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (5 ug/mL)<br>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.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- 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 .

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## Gene Info — CASP7

| | |
|---|---|
| **Entrez GeneID** | 840 |
| **Protein Accession#** | NP_001081408 |
| **Gene Name** | CASP7 |

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| | |
|---|---|
| **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

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## 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

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- 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

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