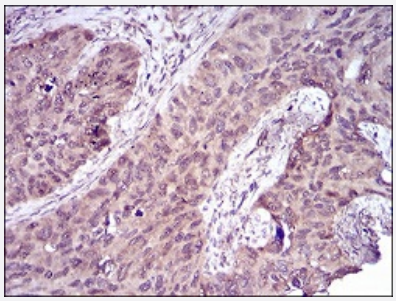
CASP7 monoclonal antibody, clone 4D10B2

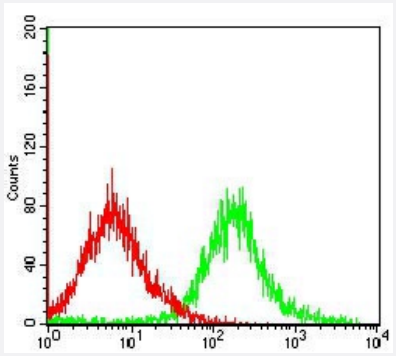
Catalog # MAB16645 Size 100 ug

Applications



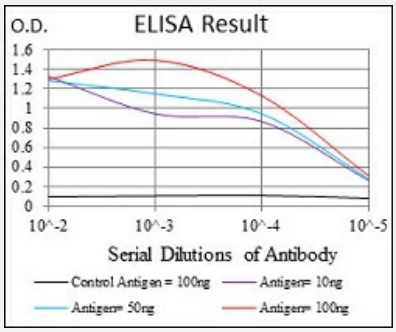
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded cervical cancer tissues with CASP7 monoclonal antibody.



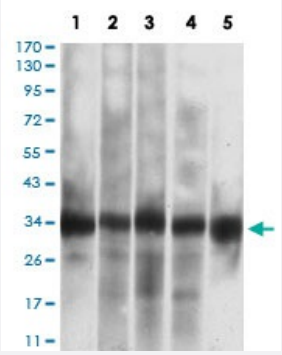
Flow Cytometry

Flow cytometric analysis of MCF-7 cells with CASP7 monoclonal antibody (green) and negative control (red).



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of CASP7 monoclonal antibody, clone 4D10B2.



Western Blot (Cell lysate)

Western blot analysis of Lane 1: Jurkat cell; Lane 2: HEK293 cell; Lane 3: MOLT4 cell; Lane 4: MCF-7 cell and Lane 5: PC-12 cell with CASP7 monoclonal antibody.

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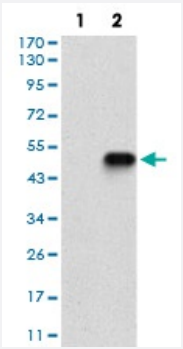

Western Blot (Transfected lysate)

Western blot analysis of Lane 1: HEK293 cell; Lane 2: CASP7-hIgGFc transfected HEK293 cell with CASP7 monoclonal antibody.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human CASP7.
Immunogen	Recombinant protein corresponding to amino acid 29-198 of human CASP7 from *E. coli*.
Host	Mouse
Theoretical MW (kDa)	34.3
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Flow Cytometry (1:200-1:400) 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 shoul d be handled by trained staff only.

Applications

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

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  Flow cytometric analysis of MCF-7 cells with CASP7 monoclonal antibody (green) and negative control (red).

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  ELISA analysis of CASP7 monoclonal antibody, clone 4D10B2.

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: Jurkat cell; Lane 2: HEK293 cell; Lane 3: MOLT4 cell; Lane 4: MCF-7 cell and Lane 5: PC-12 cell with CASP7 monoclonal antibody.

- Western Blot (Transfected lysate)

  Western blot analysis of Lane 1: HEK293 cell; Lane 2: CASP7-hIgGFc transfected HEK293 cell with CASP7 monoclonal antibody.

Gene Info — CASP7

Entrez GeneID	840
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

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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