

Product datasheet for **TA336390**

Caspase-7 (CASP7) Mouse Monoclonal Antibody [Clone ID: 25B881.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	25B881.1
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry, Western Blot: 1-2 ug/ml, Immunohistochemistry-Paraffin: 5 ug/ml
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	This antibody was generated against recombinant protein of active form of human Caspase-7.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	caspase 7
Database Link:	NP_203124 Entrez Gene 12369 Mouse Entrez Gene 64026 Rat Entrez Gene 840 Human P55210



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Background:

Caspases are a family of cysteine proteases that are key mediators of programmed cell death or apoptosis. The precursor form of all caspases is composed of a prodomain, and large and small catalytic subunits. The active forms of caspases are generated by several stimuli including ligand-receptor interactions, growth factor deprivation and inhibitors of cellular functions. All known caspases require cleavage adjacent to aspartates to liberate one large and one small subunit, which associate into a₂b₂ tetramer to form the active enzyme. Caspase-7 is derived from the cleavage of proMCH3-alpha into 2 subunits, p20 and p12 by Caspase-3. Sequence analysis revealed that the MCH3-alpha amino acid sequence had the highest homology to caspase-3 (53% identity) and less than 37% identity with all other family members.

Synonyms:

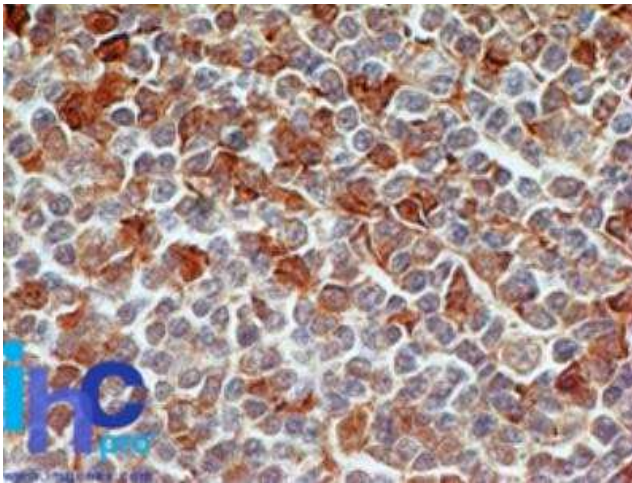
CASP-7; CMH-1; ICE-LAP3; LICE2; MCH3

Protein Families:

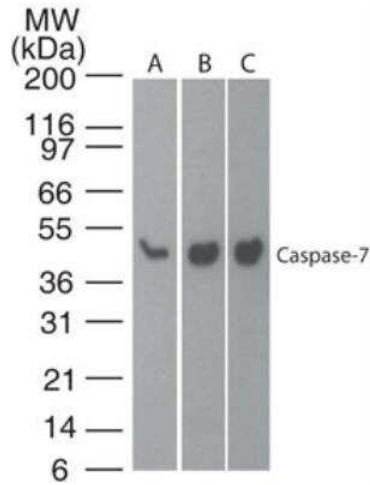
Druggable Genome, Protease

Protein Pathways:

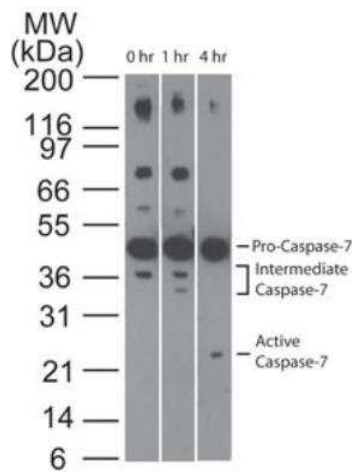
Alzheimer's disease, Apoptosis

Product images:

Immunohistochemistry-Paraffin: Caspase-7 Antibody (25B881.1) TA336390 - Human tonsil stained with Caspase-7 antibody at 5 ug/ml. Novus' human tonsil tissue slide was used for this test. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



Western Blot: Caspase-7 Antibody (25B881.1) TA336390 - Analysis of Caspase-7 in A) human brain, B) mouse brain and C) rat brain lysate using Caspase-7 antibody at 1 ug/ml.



Western Blot: Caspase-7 Antibody (25B881.1) TA336390 - Analysis of Caspase-7 in Jurkat cells using Caspase-7 antibody at 1 ug/ml. Cells were treated with 2 uM staurosporine for different time periods. Caspase-7 activation is detected in western blots by the presence of Caspase-7 cleavage fragments. The antibody detected both pro (full-length) and active (cleaved) Caspase-7, depending on the treatment time points. A basal level of endogenous intermediate Caspase-7 can be seen in untreated Jurkat cells.