

Product datasheet for **TA301617**

Caspase-7 (CASP7) Mouse Monoclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	Simple Western, WB
Recommended Dilution:	Western Blot: 1:500-1:1000, Simple Western: 1:500, Knockdown Validated
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Full-length recombinant human Caspase 7 protein
Formulation:	Ascitic fluid and 0.1% sodium azide
Purification:	Ascites
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_203125 Entrez Gene 12369 Mouse Entrez Gene 64026 Rat Entrez Gene 840 Human P55210

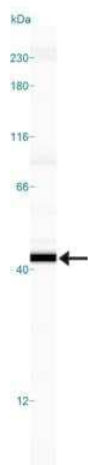
Background: Caspases are cysteine proteases, expressed as inactive precursors, that mediate apoptosis by proteolysis of specific substrates. Caspases have the ability to cleave after aspartic acid residues. There are two classes of caspases involved in apoptosis; initiators (activation by receptor cluster) and effectors (activation by mitochondrial permeability transition). Proapoptotic signals autocatalytically activate initiator caspases, such as Caspase-8 and Caspase-9. Activated initiator caspases then process effector caspases, such as Caspase-3 and Caspase-7, which in turn cause cell collapse.

Synonyms:	CASP-7; CMH-1; ICE-LAP3; LICE2; MCH3
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Alzheimer's disease, Apoptosis

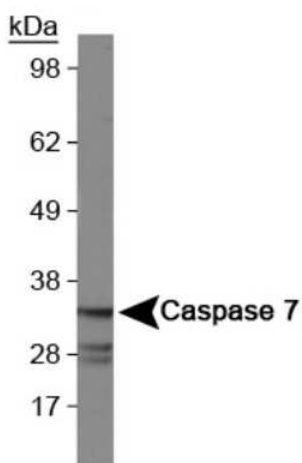


[View online »](#)

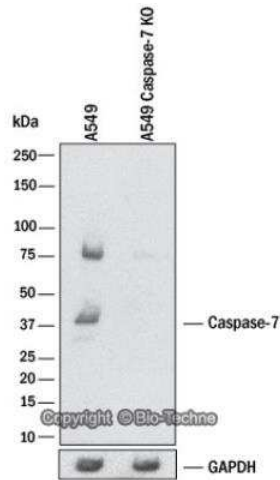
Product images:



Simple Western: Caspase-7 Antibody (Mch3 1-1-11) TA301617 - Simple Western lane view shows a specific band for Caspase 7 in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing A246 conditions using the 12-230 kDa separation system.



Western Blot: Caspase-7 Antibody (Mch3 1-1-11) TA301617 - HeLa whole cell lysate.



Knockdown Validated: Caspase-7 Antibody (Mch3 1-1-11) TA301617 - Western blot shows lysates of A549 human lung epithelial parental cell line and Caspase-7 knockout (KO) A549 cell line. PVDF membrane was probed with 1:500 of Mouse Anti-Human Caspase-7 Monoclonal Antibody (Catalog # NB500-106) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog #HAF018). Specific band was detected for Caspase-7 at approximately 40 kDa (as indicated) in the parental A549 cell line, but is not detectable in the knockout A549 cell line. This experiment was conducted under reducing conditions.