www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

Anti-Caspase-3 (N-terminal region) Antibody

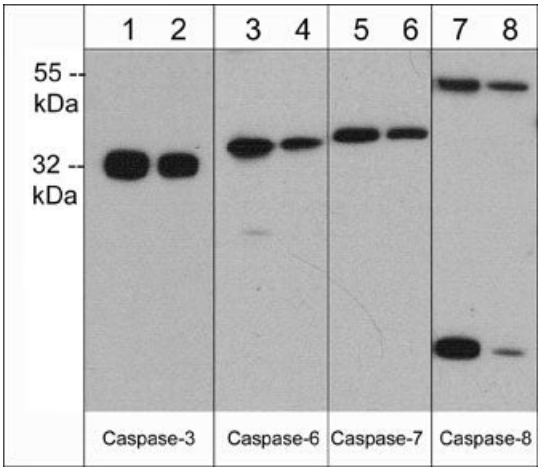
phosphosolutions ANTIBODIES THAT WORK

Product Details

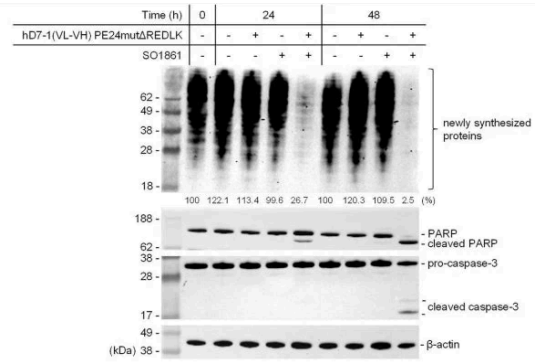
Available Variants	100 µL (SKU:CM3771)
Conjugate	Unconjugated
Isotype	IgG2a
Clone	M377
Gene Name	CASP3
Host Species	Mouse
Format	Protein A Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:100
Species Reactivity	Human
Immunogen	Clone (M377) was generated from a recombinant protein containing amino acid residues in the N-terminal region of human Caspase-3.
Specificity	The antibody detects a 32 kDa* protein corresponding to the molecular weight of Caspase-3 on SDS-PAGE immunoblots of human Jurkat and K562 cells.
Molecular Weight	32
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

UniProt ID	P42574 UniProt Summary: Thiol protease that acts as a major effector caspase involved in the execution phase of apoptosis. Following cleavage and activation by initiator caspases (CASP8, CASP9 and/or CASP10), mediates execution of apoptosis by catalyzing cleavage of many proteins. At the onset of apoptosis, it proteolytically cleaves poly(ADP-ribose) polymerase PARP1 at a '216-Asp-|-Gly-217' bond. Cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Cleaves and activates caspase-6, -7 and -9 (CASP6, CASP7 and CASP9, respectively). Cleaves and inactivates interleukin-18 (IL18). Involved in the cleavage of huntingtin. Triggers cell adhesion in sympathetic neurons through RET cleavage. Cleaves DSG2 in response to apoptosis resulting in a loss of full length DSG2 at desmosome cell junctions and subsequent loss of cell-cell adhesion. Also cleaves JUP in response to apoptosis. Cleaves and inhibits serine/threonine-protein kinase AKT1 in response to oxidative stress. Acts as an inhibitor of type I interferon production during virus-induced apoptosis by mediating cleavage of antiviral proteins CGAS, IRF3 and MAVS, thereby preventing cytokine overproduction. Also involved in pyroptosis by mediating cleavage and activation of gasdermin-E (GSDME). Cleaves XRCC4 and phospholipid scramblase proteins XKR4, XKR8 and XKR9, leading to promote phosphatidylserine exposure on apoptotic cell surface. Cleaves BIRC6 following inhibition of BIRC6-caspase binding by DIABLO/SMAC.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	836

Product Images



Western blot analysis of Caspase expression in human Jurkat cells. The blot was probed with anti-Caspase-3 at 1:500 (lane 1) and 1:1000 (lane 2), anti-Caspase-6 at 1:250 (lane 3) and 1:500 (lane 4), anti-Caspase-7 at 1:500 (lane 5) and 1:1000 (lane 6), as well as anti-Caspase-8 at 1:250 (lane 7) and 1:500 (lane 8).



Inhibition of protein biosynthesis as shown by puromycin Western blot analysis and induction of apoptosis in LNCaP cells as demonstrated by PARP and Caspase-3 (Cat. CM3771) cleavage after combination treatment. Image from publication CC-BY-4.0. PMID: 37484018

Created on 20. November 2026 | All information without guarantee