

Caspase 3 Antibody

Catalog No: #21420

Package Size: #21420-1 50ul #21420-2 100ul

Description

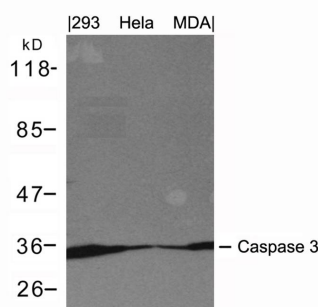
Product Name	Caspase 3 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Caspase 3 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.29~33 (S-G-I-S-L) derived from Caspase 3.
Conjugates	Unconjugated
Target Name	Caspase 3
Other Names	Apopain
Accession No.	Swiss-Prot: P42574NCBI Protein: NP_004337.2
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 35 17kd

Western blotting: 1:1000

Images



Western blot analysis of extracts from 293, HeLa and MDA cells using Caspase 3 Antibody #21420.

Background

Involved in the activation cascade of caspases responsible for apoptosis execution. At the onset of apoptosis it proteolytically cleaves poly(ADP-ribose) polymerase (PARP) 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. Involved in the cleavage of huntingtin.

Gervais, F. G et al. Cell 97: 395-406, 1999.

Nicholson, D. W. et al. (1995) Nature 376, 37-43.

Published Papers

el at., BAD overexpression inhibits cell growth and induces apoptosis via mitochondrial-dependent pathway in non-small cell lung cancer. In Cancer Cell Int on 2013 Jun 1 by Jiang L, Luo M, et al.. PMID:23725574, , (2013)

[PMID:23725574](#)

el at., Ampelopsin induces apoptosis in HepG2 human hepatoma cell line through extrinsic and intrinsic pathways: Involvement of P38 and ERK. In Environ Toxicol Pharmacol on 2015 Nov by Shimei Qi, Xianjuan Kou et al.. PMID: 26476886 , , (2015)

[PMID:26476886](#)

el at., Differential apoptosis gene expressions of rhabdomyosarcoma cells in response to enterovirus 71 infection. In BMC Infect Dis on 2012 Nov 28 by Shi W, Li X, et al.. PMID:23191987, , (2012)

[PMID:23191987](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.