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Cleaved-Caspase-3 p17 (D175) Polyclonal Antibody

Catalog No	YP-Ab-00004
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF;IHC;ELISA
Gene Name	CASP3
Protein Name	Caspase3
Immunogen	The antiserum was produced against synthesized peptide derived from human Caspase 3. AA range:126-175
Specificity	Cleaved-Caspase-3 p17 (D175) Polyclonal Antibody detects endogenous levels of fragment of activated Caspase-3 p17 protein resulting from cleavage adjacent to D175.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000, IHC-p 1:50-300, IF 1:50-300
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CASP3; CPP32; Caspase-3; CASP-3; Apopain; Cysteine protease CPP32; CPP-32; Protein Yama; SREBP cleavage activity 1; SCA-1
Observed Band	17 34kD
Cell Pathway	Cytoplasm.
Tissue Specificity	Highly expressed in lung, spleen, heart, liver and kidney. Moderate levels in brain and skeletal muscle, and low in testis. Also found in many cell lines, highest expression in cells of the immune system.
Function	catalytic activity:Strict requirement for an Asp residue at positions P1 and P4. It has a preferred cleavage sequence of Asp-Xaa-Xaa-Asp- - with a hydrophobic amino-acid residue at P2 and a hydrophilic amino-acid residue at P3, although Val or Ala are also accepted at this position.,enzyme regulation:Inhibited by isatin sulfonamides.,function: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.,PTM:Cleavage by granzyme B, caspase-6, caspase-8 and caspase-10 generates the two active subunits. Ad

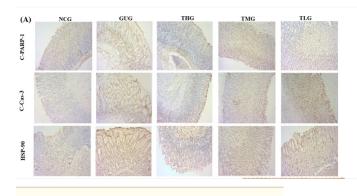


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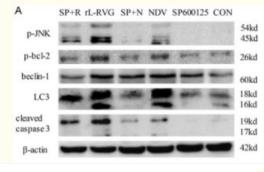
Background matters needing attention	This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein. [provided by RefSeq, Jul 2008], Avoid repeated freezing and thawing!
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Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Guo, H., Chen, B., Yan, Z. et al. Metabolites profiling and pharmacokinetics of troxipide and its pharmacodynamics in rats with gastric ulcer. Sci Rep 10, 13619 (2020).

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C Control Coptisine(μM) CONTROL 2.5 25 50 100 PARP-CF Cleaved caspase-3 Cleaved caspase-8 β-actin Bu, Xuefeng, et al. "Recombinant Newcastle disease virus (rL-RVG) triggers autophagy and apoptosis in gastric carcinoma cells by inducing ER stress." American journal of cancer research 6.5 (2016): 924.

Zhou, Li, et al. "Coptisine induces apoptosis in human hepatoma cells through activating 67-kDa laminin receptor/cGMP signaling." Frontiers in pharmacology 9 (2018).



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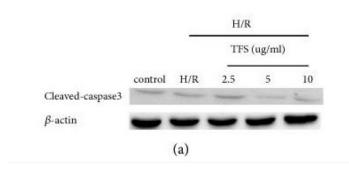
4530-4541.

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Chen, Puxiang, et al. "Long noncoding RNA LINC00152 promotes cell proliferation through competitively binding endogenous miR-125b with MCL-1 by regulating mitochondrial apoptosis pathways in ovarian cancer." Cancer medicine 7.9 (2018):

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mock_sh11NC00152-1250 800K_sh11NC00152-1250 8011-1000152-1250 MCL-1 Bcl-2 Bax Cytochrome c Cleaved Caspace 9 Cleaved Caspace 3 Cleaved β-actin



Jiang, Ruibin, et al. "Total Flavonoids from Carya cathayensis Sarg. Leaves Alleviate H9c2 Cells Hypoxia/Reoxygenation Injury via Effects on miR-21 Expression, PTEN/Akt, and the Bcl-2/Bax Pathway." Evidence-Based Complementary and Alternative Medicine 2018 (2018).