



Cleaved-Caspase-3 p17 (D175) Polyclonal Antibody

E20-10027**Catalog Number:**E20-10027**Amount:**100ul**Applications:**WB;IF;IHC;ELISA**Reactivity:**Human;Mouse;Rat**Target:**Caspase-3

Fields:>>Platinum drug resistance;>>MAPK signaling pathway;>>p53 signaling pathway;>>Apoptosis;>>Apoptosis - multiple species;>>Natural killer cell mediated cytotoxicity;>>IL-17 signaling pathway;>>TNF signaling pathway;>>Serotonergic synapse;>>Non-alcoholic fatty liver disease;>>AGE-RAGE signaling pathway in diabetic complications.

Gene Name:CASP3**Protein Name:**Caspase3**Human Gene Id:**836**Human Swiss Prot No:**P42574**Mouse Gene Id:**12367**Mouse Swiss Prot No:**P70677**Rat Gene Id:**25402**Rat Swiss Prot No:**P55213

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

Dilution:WB 1:500-2000, IHC 1:50-300, IF 1:50-300

Purification:The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration:1 mg/ml

Storage Stability:-15°C to -25°C/1 year(Do not lower than -25°C)

Other Name:CASP3;CPP32;Caspase-3;CASP-3;Apopain;Cysteine protease CPP32;CPP-32;Protein Yama;SREBP cleavage activity 1;SCA-1

Observed Band(KD):17 34kD

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Background: 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.

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.

Subcellular Location: Cytoplasm.

Expression: 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.

