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Polyclonal Antibody to Caspase-9 - Purified

Alternate names: APAF-3, APAF3, Apoptotic protease Mch-6, Apoptotic protease-activating factor 3, CASP-9, CASP9, ICE-LAP6, ICE-like apoptotic protease 6, MCH6

Catalog No.: AP00528PU-N

Quantity: 0.5 mg

Concentration: 1.0 mg/ml

Background: Activation of procaspase-9 by Apaf-1 in the cytochrome c/ dATP-dependent pathway requires proteolytic cleavage to generate the mature caspase molecule. Deletion of the Apaf-1 WD-40 repeats makes Apaf-1 constitutively active and capable of processing procaspase-9 independent of cytochrome c and dATP. Apaf-1-mediated processing of procaspase-9 occurs at Asp-315 by an intrinsic autocatalytic activity of procaspase-9 itself. Apaf-1 can form oligomers and may facilitate procaspase-9 autoactivation by oligomerizing its precursor molecules. Once activated, Caspase 9 can initiate a caspase cascade involving the downstream executioners Caspase 3, 6, and 7.

Uniprot ID: P55211

NCBI: NP_001220.2

GeneID: 842

Host: Rabbit

Immunogen: Recombinant protein of human Caspase 9
AA Sequence:
1-134
Remarks: Molecular Weight of antigen 46-48 kD

Format: **State:** Liquid purified IgG fraction
Purification: Protein A Affinity Chromatography
Buffer System: 10 mM PBS pH 7.4 with 0.09% Sodium Azide as preservative and 0.2% BSA as stabilizer

Applications: **Western Blotting:** Use 2.5-5 µg/ml for 2hrs at RT.
Immunoprecipitation: Use 10 µg/mg protein lysate (Denatured verified), Use Protein A.
Immunohistology (Formalin/Paraffin): 5-10 µg/ml for 30 min at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.
Recommended Positive Control: Jurkat Cells, Tonsil.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts with Caspase 9.
Cellular Localization: Cytoplasmic.
Species: Human, Mouse, Rat, Cow, Sheep.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C.
Shelf life: one year from despatch.

General Readings:
1. Li P, et al. Cell 1997, 91(4):479-89.
2. Hakem R, et al.Cell 1998, 94(3):339-52.