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AP00003PU-N Polyclonal Antibody to Caspase-3 (active) - Purified

Alternate names: Apopain, CASP-3, CASP3, CPP-32, CPP32, Cysteine protease CPP32, SCA-1, SCA1, SREBP cleavage activity 1, Yama protein

Quantity: 0.1 mg

Concentration: 0.2 mg/ml

Background: Caspase-3 has been extensively studied and implicated to play an important role in apoptosis. Active caspase-3 proteolytically cleaves and activates other caspases, as well as relevant targets in the cells (e.g., PARP). The affinity purified antibody recognizing the active forms of caspase-3 provides a new tool for identifying apoptotic cell populations in both tissue sections and cultured cells.

Uniprot ID: P42574

NCBI: NP_004337.2

GeneID: 836

Host: Rabbit

Immunogen: Synthetic peptide mapping to the N-terminus adjacent to the cleavage site of Human Caspase-3.

Format:
State: Liquid purified IgG fraction
Purification: Antigen Affinity Chromatography
Buffer System: PBS containing 30% Glycerol, 0.5% BSA, and 0.01% Thimerosal

Applications:
Western Blot: 1/50-1/500.
Immunohistochemistry on Paraffin Sections: 1/10-1/20.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: The antibody preferentially recognizes the p17 fragment of the active Caspase-3.
Species: Human, Mouse, Rat.
Other species not tested.

Storage: Upon receipt, store (in aliquots) at -20°C to -80°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Product Citations:
Purchased from Acris:
1. Ypsilantis P, Lambropoulou M, Tentes I, Chryssidou M, Georgantas T, Simopoulos C. Room air versus carbon dioxide pneumoperitoneum: effects on oxidative state, apoptosis and histology of splanchnic organs. Surg Endosc. 2015 Jun 27. PubMed PMID: 26123338.

Pictures:

Western blot analysis of caspase-3 in camptothecin (2 µM) treated Jurkat cells.