

Cat. No: AB-83787
Size: 100 ug
Clone: Poly
Concentration: 1mg/ml
Host: Rb
Isotype: IgG
Reactivity: HU, Ms,Rt

Applications: Western blotting 1:1000
 Immunohistochemistry (Paraffin) 1:200

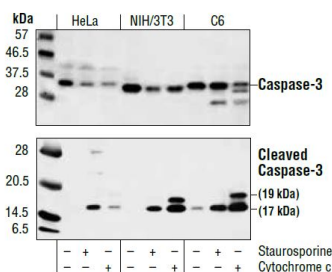
Molecular Weight: 17,35kDa

Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues adjacent to (Asp175) in human caspase-3.

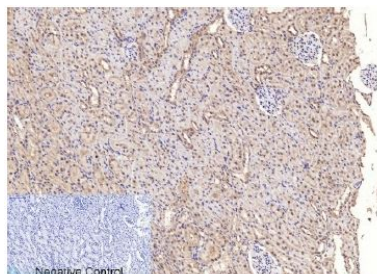
Background: Caspase-3 (CPP-32, Apoptain, Yama, SCA-1) is one of the key executioners of apoptosis, as it is either partially or totally responsible for the proteolytic cleavage of many key proteins such as the nuclear enzyme poly (ADPribose) polymerase (PARP) (1). Activation of caspase-3 requires proteolytic processing of its inactive zymogen into activated p17 and p12 fragments. Cleavage of caspase-3 requires aspartic acid at the P1 position (2). Cleaved Caspase-3 (Asp175) Antibody detects endogenous levels of the large fragment (17/19 kDa) of activated caspase-3 resulting from cleavage adjacent to Asp175. This antibody does not recognize full length caspase-3 or other cleaved caspases. This antibody detects non-specific caspase substrates by western blot. Non-specific labeling may be observed by immunofluorescence in specific sub-types of healthy cells in fixed-frozen tissues (e.g. pancreatic alpha-cells). Nuclear background may be observed in rat and monkey samples.

Form: Liquid

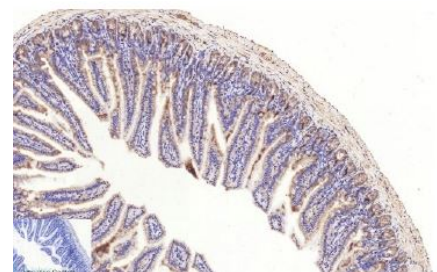
Storage: Store at -20°C, and avoid repeat freezethaw cycles



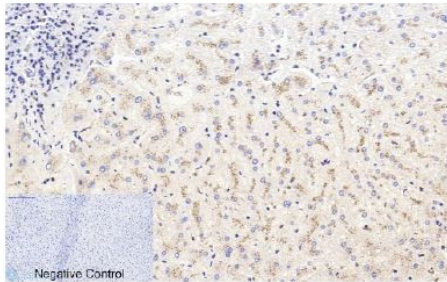
Western blot analysis of extracts from HeLa, NIH/3T3 and C6 cells untreated, staurosporinetreated (1 μM in vivo) or cytochrome c-treated (0.25 mg/ml in vitro), using Caspase-3 Antibody (upper) or Cleaved Caspase-3 (Asp175) Antibody (lower).



Immunohistochemical analysis of rat kidney tissue. The antibody was diluted at 1:200 (4°C, overnight). Sodium citrate pH6.0 was used for antibody retrieval (>98°C, 20min). Secondary antibody was diluted at 1:200 (room temperature, 30min).



Immunohistochemical analysis of mouse colon tissue. The antibody was diluted at 1:200 (4°C, overnight). Sodium citrate pH6.0 was used for antibody retrieval (>98°C, 20min). Secondary antibody was diluted at 1:200 (room temperature, 30min).



Immunohistochemical analysis of human liver tissue. Anti-Cleaved-Caspase-3 p17 (D175) at 1:200 (4°C, overnight). Antigen retrieval - Sodium Citrate pH6 (>98°C, 20min). Secondary - 1:200 (room temp, 30min). Negative control - Secondary only