

For Research Use Only

Cleaved Caspase 3 Polyclonal antibody

Catalog Number: 25128-1-AP

184 Publications



Basic Information

Catalog Number: 25128-1-AP	GenBank Accession Number: NM_032991	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 ug/ml by Nanodrop;	GeneID (NCBI): 836	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: P42574	
Isotype: IgG	Full Name: caspase 3, apoptosis-related cysteine peptidase	
	Calculated MW: 32 kDa	
	Observed MW: 17-25 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : Jurkat cells, IHC : mouse brain tissue, IF/ICC : HeLa cells,
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse	
Cited Species: human, mouse, rat, chicken, bovine, goat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Caspases, a family of endoproteases, are critical players in cell regulatory networks controlling inflammation and cell death. Initiator caspases (caspase-2, -8, -9, -10, -11, and -12) cleave and activate downstream effector caspases (caspase-3, -6, and -7), which in turn execute apoptosis by cleaving targeted cellular proteins. Caspase 3 plays a key role in the activation of sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Caspase 3 can form heterocomplex with other proteins. This antibody can recognize the cleaved Caspase 3 fragments. This antibody is specific for cleaved caspase 3, and does not recognize full length caspase-3. The cleaved fragment of Caspase 3 might form complex and shows at around 30-35 kDa by western blot (PMID: 25501826).

Notable Publications

Author	Pubmed ID	Journal	Application
Chen Wang	39916312	Phytother Res	WB
Miao Qi	39914684	Free Radic Biol Med	WB
Tao Liu	39863655	Sci Rep	WB

Storage

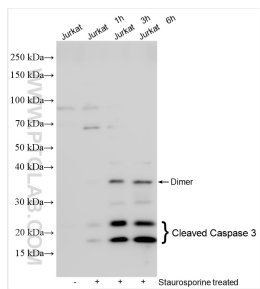
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

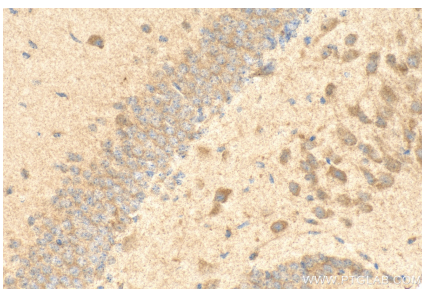
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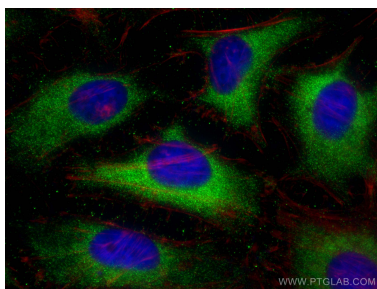
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 25128-1-AP (cleaved Caspase 3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 25128-1-AP (Cleaved Caspase 3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Cleaved Caspase 3 antibody (25128-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).