

For Research Use Only

Cleaved Caspase 3 Polyclonal antibody



Catalog Number: 25128-1-AP **47 Publications**

Basic Information

Catalog Number: 25128-1-AP	GenBank Accession Number: NM_032991	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 836	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF 1:200-1:800
Source: Rabbit	UNIPROT ID: P42574	
Isotype: IgG	Full Name: caspase 3, apoptosis-related cysteine peptidase	
	Calculated MW: 32 kDa	
	Observed MW: 17 kDa, 19 kDa	

Applications

Tested Applications: WB, IF, IHC, ELISA	Positive Controls: WB : Jurkat cells, IHC : mouse brain tissue, IF : NIH/3T3 cells,
Cited Applications: WB, IF, IHC	
Species Specificity: human, mouse	
Cited Species: human, goat, chicken, rat, mouse, bovine	

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 p17, p19 and p32 of Caspase 3. This antibody is specific for cleaved caspase 3, and does not recognize full length caspase-3, it can recognize the 17 and 19 kDa cleaved-caspase 3. The cleaved P17 and P19 fragment might form complex and shows at around 30-35 kDa by western blot (PMID: 25501826).

Notable Publications

Author	Pubmed ID	Journal	Application
Le Zhao	38481287	J Anim Sci Biotechnol	WB
Wanwen Ge	38360888	Sci Rep	WB
Shan Gao	38353878	Mol Cell Biochem	WB

Storage

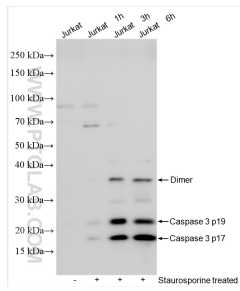
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

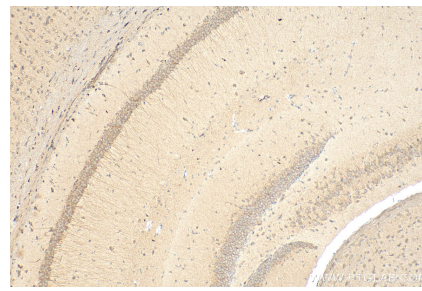
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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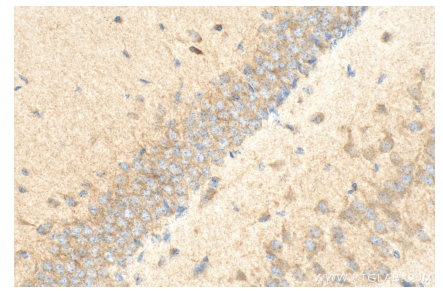
Selected Validation Data



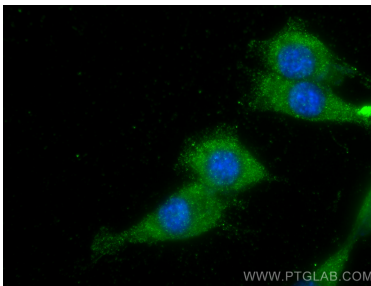
Various lysates were subjected to SDS PAGE followed by western blot with 25128-1-AP (cleaved Caspase 3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 25128-1-AP (Cleaved Caspase 3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 Methanol) fixed NIH/3T3 cells using Cleaved Caspase 3 antibody (25128-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).