

For Research Use Only

Caspase 3/P17/P19 Recombinant antibody

Catalog Number: 82202-1-RR

22 Publications



Basic Information

Catalog Number: 82202-1-RR	GenBank Accession Number: NM_004346	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 836	CloneNo.: 5G20
Source: Rabbit	UNIPROT ID: P42574	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000 IF/ICC 1:500-1:2000
Isotype: IgG	Full Name: caspase 3, apoptosis-related cysteine peptidase	
	Calculated MW: 32 kDa	
	Observed MW: 32-35 kDa, 17 kDa, 19 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : Staurosporine treated Jurkat cells, HepG2 cells IHC : mouse brain tissue, IF/ICC : HeLa cells,
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse	
Cited Species: human, mouse, rat, 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 (also named CPP32, SCA-1, and Apopain) proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at the beginning of apoptosis. 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 also form heterocomplex with other proteins and performs the molecular mass of 50-70 kDa. This antibody can recognize p17, p19 and p32 of Caspase 3.

Notable Publications

Author	Pubmed ID	Journal	Application
Tuohua Mao	39896707	Diabetes Metab Syndr Obes	WB
Qingsheng Meng	39817595	CNS Neurosci Ther	WB
Zehang Zheng	39721999	J Exp Clin Cancer Res	WB

Storage

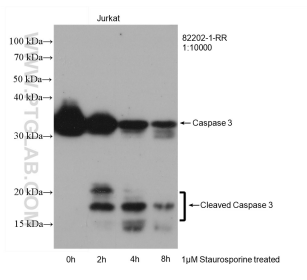
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

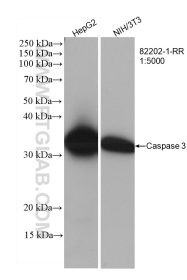
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

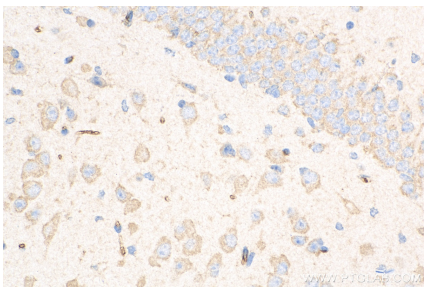
Selected Validation Data



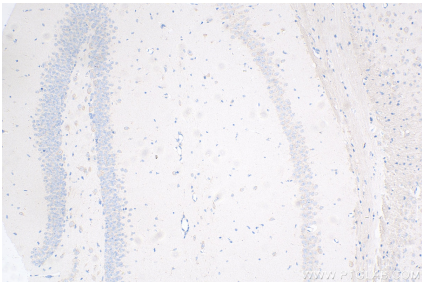
Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



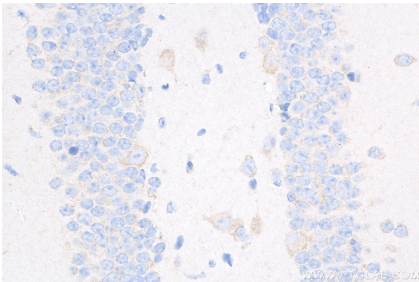
Various lysates were subjected to SDS PAGE followed by western blot with 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



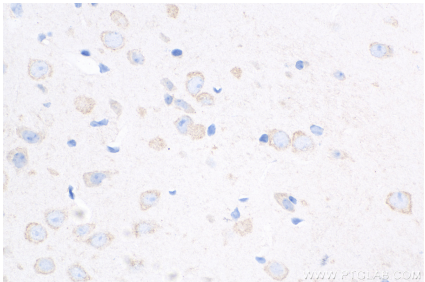
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



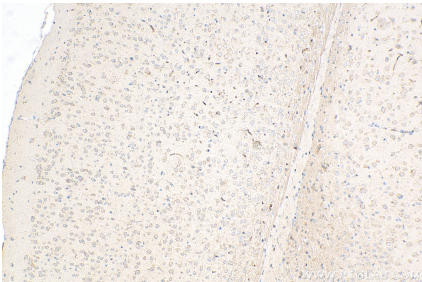
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



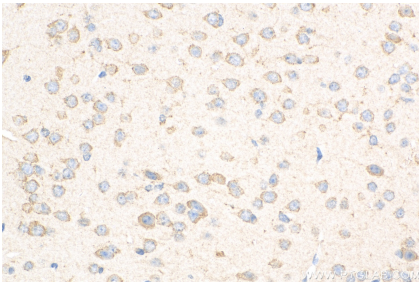
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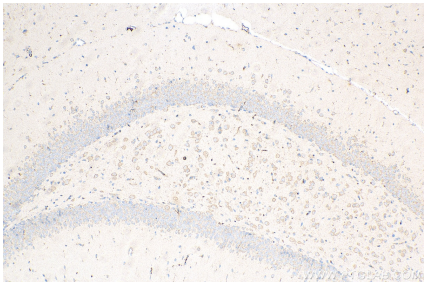
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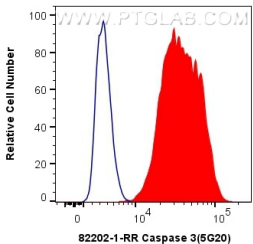
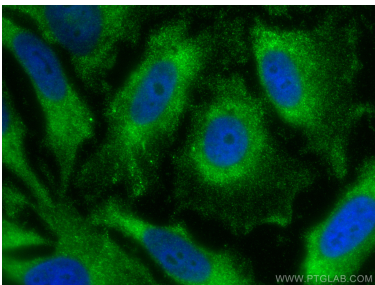
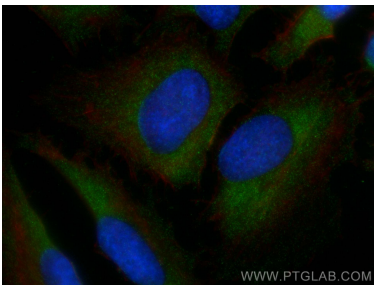
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Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Caspase 3/P17/19 antibody (82202-1-RR, Clone: 5G20) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).

Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Caspase 3/P17/19 antibody (82202-1-RR, Clone: 5G20) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human Caspase 3/P17/19 (82202-1-RR, Clone:5G20) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).