

For Research Use Only

Caspase 3 Recombinant antibody, PBS Only



Catalog Number: 82202-1-PBS

Basic Information

Catalog Number: 82202-1-PBS	GenBank Accession Number: NM_004346	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 836	CloneNo.: 5G20
Source: Rabbit	UNIPROT ID: P42574	
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, IF, FC, IHC, Indirect ELISA

Species Specificity:
Human, mouse

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.

Storage

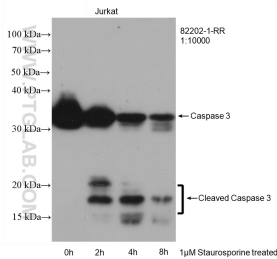
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

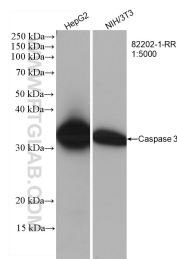
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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

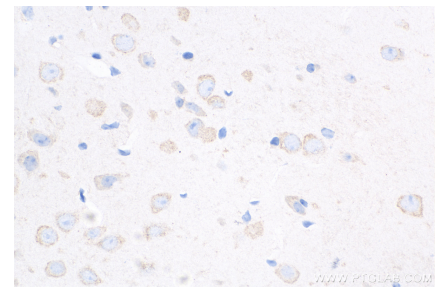
Selected Validation Data



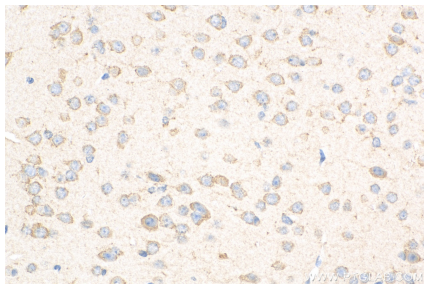
Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 82202-1-RR (Caspase 3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82202-1-PBS in a different storage buffer formulation.



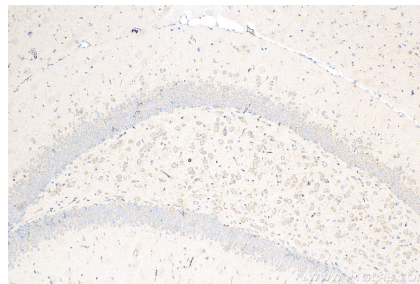
Various lysates were subjected to SDS PAGE followed by western blot with 82202-1-RR (Caspase 3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82202-1-PBS in a different storage buffer formulation.



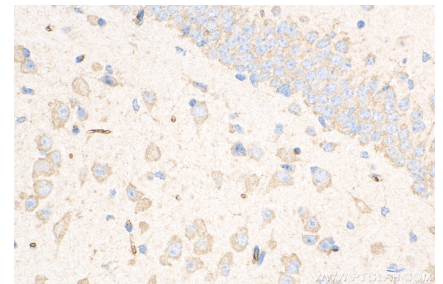
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82202-1-RR (Caspase 3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82202-1-PBS in a different storage buffer formulation.



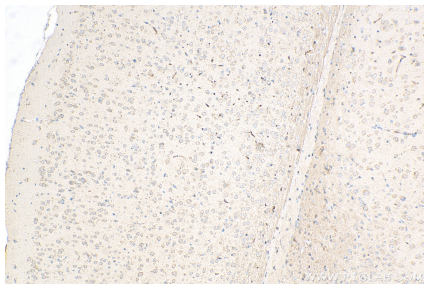
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82202-1-RR (Caspase 3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82202-1-PBS in a different storage buffer formulation.



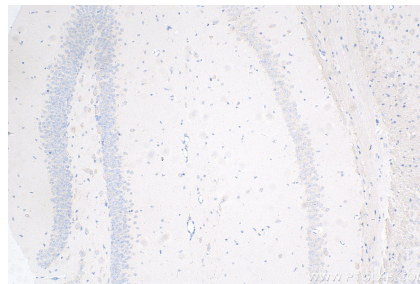
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82202-1-RR (Caspase 3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82202-1-PBS in a different storage buffer formulation.



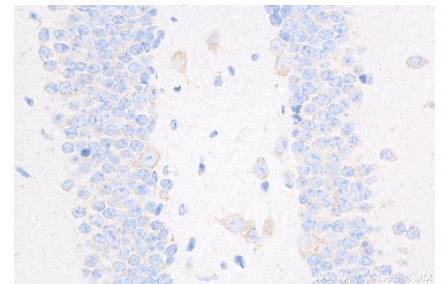
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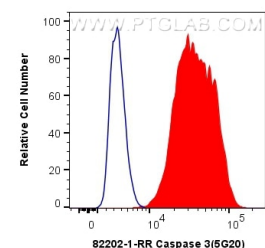
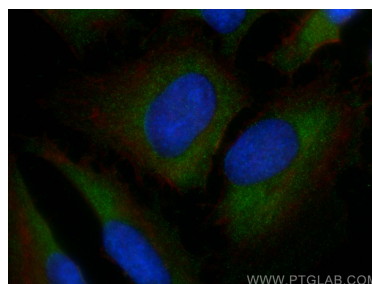
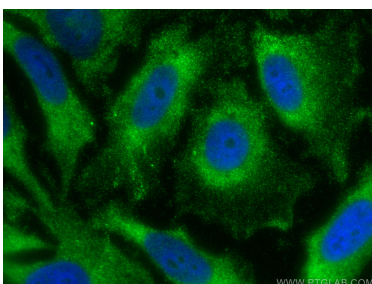
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Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Caspase 3 antibody (82202-1-RR, Clone: 5G20) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 82202-1-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Caspase 3 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). This data was developed using the same antibody clone with 82202-1-PBS in a different storage buffer formulation.

1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human Caspase 3 (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). This data was developed using the same antibody clone with 82202-1-PBS in a different storage buffer formulation.