For Research Use Only

Caspase 3/P17/P19 Recombinant monoclonal antibody



Catalog Number:82202-1-RR

Featured Product

45 Publications

Basic Information

Catalog Number: 82202-1-RR Source:

Isotype: IgG

Rabbit

GenBank Accession Number:

NM_004346 GeneID (NCBI): 836

P42574 Full Name:

UNIPROT ID:

caspase 3, apoptosis-related cysteine | F/(CC: 1:500-1:2000

peptidase

Calculated MW: 32 kDa

Observed MW: 32-35 kDa, 17 kDa, 19 kDa Purification Method:

Protein A purification CloneNo.:

5G20
Recommended Dilutions:

WB: 1:5000-1:50000 IHC: 1:250-1:1000 IF/ICC: 1:500-1:2000

FC (Intra): 0.40 ug per 10^6 cells in a

100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications: WB, IHC, IF Species Specificity: human, mouse Cited Species:

human, mouse, rat, rabbit, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **Positive Controls:**

WB: Staurosporine treated Jurkat cells, HepG2 cells,

HeLa cells, NIH/3T3 cells
IHC: mouse brain tissue,
IF/ICC: HeLa cells,
FC (Intra): HepG2 cells,

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
Xinyu Zhao	40641838	Bioact Mater	IHC
Hui Liu	40481493	J Nanobiotechnology	WB
Małgorzata Myszka	40476490	Antioxid Redox Signal	WB

Storage

Storage:

Storage Ruffer

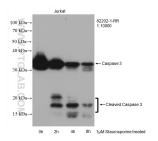
PBS with 0.02% sodium azide and 50% glycerol, pH7.3 $\,$

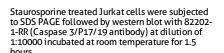
Aliquoting is unnecessary for -20°C storage

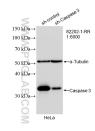
For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

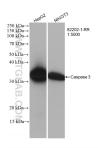
Selected Validation Data







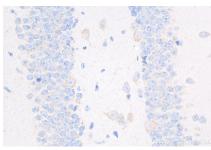
WB result of Caspase 3/P17/P19 antibody (82202-1-RR; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3/P17/P19 transfected HeLa cells.



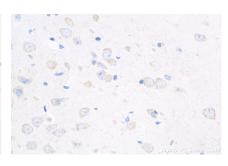
Various lysates were subjected to SDS PAGE followed by western blot with 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded 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).



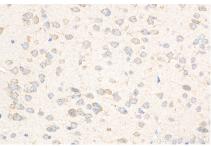
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0.)



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



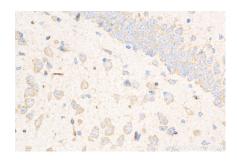
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

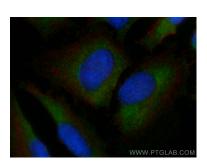


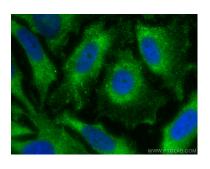
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded 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).



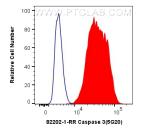




Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 82202-1-RR (Caspase 3/P17/19 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

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).



1X10^6 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.