For Research Use Only

Caspase 3/P17/P19 Polyclonal antibody

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Catalog Number: 19677-1-AP

Featured Product

2369 Publications

GenBank Accession Number:

Basic Information

Catalog Number: 19677-1-AP

NM 004346

Antigen affinity purification Recommended Dilutions:

Size:

GeneID (NCBI):

WB 1:500-1:2000

Purification Method:

150ul , Concentration: 600 ug/ml by Nanodrop:

UNIPROT ID:

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Source:

P42574 Full Name: protein lysate IHC 1:50-1:500

Rabbit Isotype:

caspase 3, apoptosis-related cysteine IF/ICC 1:50-1:500

IF-P 1:200-1:800

IgG

peptidase

Calculated MW: 32 kDa

Observed MW:

32-35 kDa, 17 kDa, 19 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, RIP, ELISA

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, rabbit, monkey, chicken, zebrafish,

hamster, sheep, goat

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: Jurkat cells, mouse spleen tissue, HeLa cells, Staurosporine treated Jurkat cells, rat brain tissue, rat liver tissue

IP: NIH/3T3 cells,

IHC: mouse brain tissue, human teeth tissue, human

spleen tissue, human kidney tissue

IF-P: mouse liver tissue, mouse brain tissue, mouse

eye tissue

IF/ICC: NIH/3T3 cells. HeLa 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(PMID:9747872). This antibody can recognize p17, p19 and p32 of Caspase 3.

Notable Publications

Author	Pubmed ID	Journal	Application
Xin Shen	36184549	Int Heart J	WB
Xiao-Feng Zhu	36180975	Phytother Res	WB
Ji Xing	36230734	Cancers (Basel)	WB

Storage

Store at -20°C. Stable for one year after shipment.

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

Aliquoting is unnecessary for -20°C storage

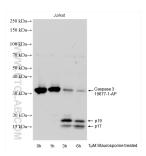
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact: E: proteintech@ptglab.com T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free

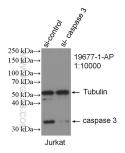
in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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

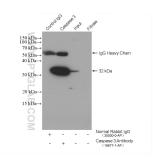
Selected Validation Data



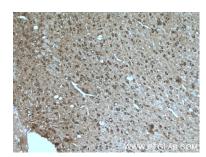
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 19677-1-AP (Caspase 3/p17/p19 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



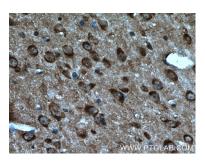
WB result of Caspase 3 antibody (19677-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3 transfected Jurkat cells.



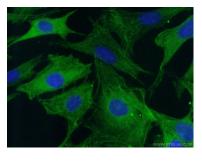
IP result of anti-Caspase 3/p17/p19 (IP:19677-1-AP, 4ug; Detection:19677-1-AP 1:300) with NIH/3T3 cells lysate 3440 ug.



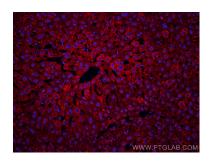
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 19677-1-AP (Caspase 3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 19677-1-AP (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 NIH/3T3 cells using 19677-1-AP (Caspase 3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Caspase 3/p17/p19 antibody (19677-1-AP) at dilution of 1:400 and Coralite®594-Conjugated Goat Anti-Rabbit IgC(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using Caspase 3/p17/p19 antibody (19677-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).