## For Research Use Only

## Caspase 3/P17/P19 Polyclonal antibody

Catalog Number: 19677-1-AP

**Featured Product** 

2361 Publications



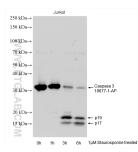
Basic Information	Catalog Number:GenBank Accession N19677-1-APNM_004346		on Number:	Purification Method: Antigen affinity purification			
	Size: 150ul , Concentration: 600 ug/ml by Nanodrop; Source:	GeneID (NCBI): 836 UNIPROT ID: P42574 Full Name:		Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF-P 1:200-1:800			
					Rabbit		
					lsotype: IgG	caspase 3, apoptosis-related cysteine IF/ICC 1:50-1:500 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			Positive Controls:		
Cited Applications: WB, IHC, IF, IP, RIP, ELISA			WB : Jurkat cells, mouse spleen tissue, HeLa cells, Staurosporine treated Jurkat cells, rat brain tissue, rat liver tissue				
Species Specificity:		IP:NIH/3T3 c	IP: NIH/3T3 cells,				
human, mouse, rat Cited Species: human, mouse, rat, rabbit, monkey, chicken, zebrafish, hamster, sheep, goat			IHC : mouse brain tissue, human teeth tissue, human spleen tissue, human kidney tissue				
		IF-P : mouse l eye tissue	IF-P : mouse liver tissue, mouse brain tissue, mouse eye tissue				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IF/ICC : NIH/:	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 o 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 Pub	med ID Jo	ournal	Application			
	Xin Shen 361	.84549 lr	nt Heart J	WB			
	Xiao-Feng Zhu 361	80975 Pl	hytother Res	WB			
	-	30734 C	ancers (Basel)	WB			
	Ji Xing 362	.50754 C					
Storage	Ji Xing 362 Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	er shipment. % glycerol, pH7.3					

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)

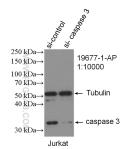
E: proteintech@ptglab.com W: ptglab.com

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

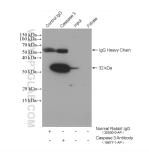
## Selected Validation Data



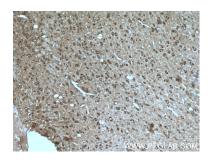
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 19677-1-AP (Caspase 3/p17/p19 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



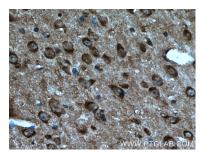
WB result of Caspase 3 antibody (19677-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3 transfected Jurkat cells.



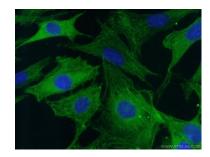
IP result of anti-Caspase 3/p17/p19 (IP:19677-1-AP, 4ug; Detection:19677-1-AP 1:300) with NIH/3T3 cells lysate 3440 ug.



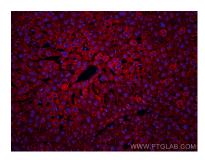
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 19677-1-AP (Caspase 3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 488conjugated 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 IgG(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).