For Research Use Only

Caspase 3/P17/P19 Polyclonal antibody

Catalog Number: 19677-1-AP

Featured Product

2361 Publications



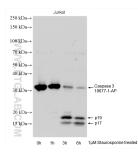
Basic Information	Catalog Number:GenBank Accession N19677-1-APNM_004346		on Number:	Purification Method: Antigen affinity purification			
	Size: 150ul , Concentration: 600 ug/ml by Nanodrop; Source:	GeneID (NCBI): 836 UNIPROT ID: P42574 Full Name:		Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug 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)

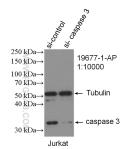
E: proteintech@ptglab.com W: ptglab.com

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

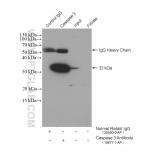
Selected Validation Data



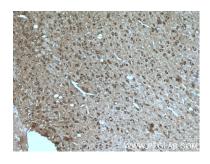
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 19677-1-AP (Caspase 3/p17/p19 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



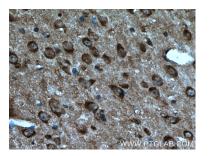
WB result of Caspase 3 antibody (19677-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3 transfected Jurkat cells.



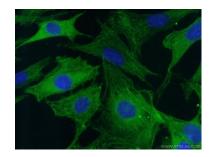
IP result of anti-Caspase 3/p17/p19 (IP:19677-1-AP, 4ug; Detection:19677-1-AP 1:300) with NIH/3T3 cells lysate 3440 ug.



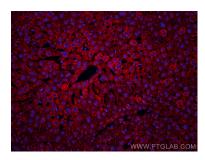
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 19677-1-AP (Caspase 3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).