## For Research Use Only

## Caspase 3/P17/P19 Polyclonal antibody

Catalog Number: 19677-1-AP

**Featured Product** 

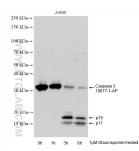
2359 Publications



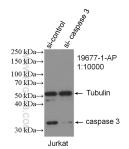
Basic Information	Catalog Number: GenBank Accession Number: 19677-1-AP NM_004346			Purification Method: Antigen affinity purification	
	Concentration: 600 ug/ml	GenelD (NC) 836		Recommended Dilutions: WB 1:500-1:2000	
	Source:	UNIPROT ID	:	IP 0.5-4.0 ug for 1.0-3.0 mg of total	
	Rabbit	P42574		protein lysate IHC 1:50-1:500 IF-P 1:200-1:800 IF/ICC 1:50-1:500	
	Isotype:	Full Name:	nontacic related systems		
	IgG	peptidase	poptosis-retated cysteme		
		Calculated	MW:		
		32 kDa Observed M	۱۸/-		
			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, pig, canine, monkey, chicken, bovine, hamster, goat, duck Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		Positive Contr	Positive Controls: WB : Jurkat cells, mouse spleen tissue, HeLa cells, Staurosporine treated Jurkat cells, rat brain tissue, ra liver tissue	
			Staurosporine		
				IP : NIH/3T3 cells,	
				IHC : mouse brain tissue, human teeth tissue, human	
			ne,	spleen tissue, human kidney tissue IF-P : mouse liver tissue, mouse brain tissue, mouse eye tissue	
			eye tissue		
				T3 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 capoptosis. 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:				

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

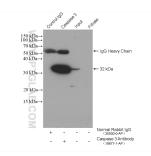
## Selected Validation Data



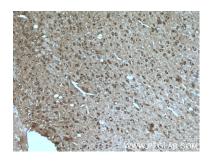
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 19677-1-AP (Caspase 3/p17/p19 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



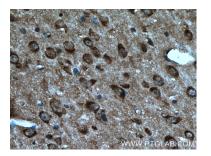
WB result of Caspase 3 antibody (19677-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3 transfected Jurkat cells.



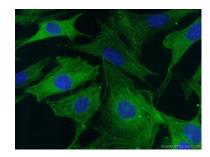
IP result of anti-Caspase 3/p17/p19 (IP:19677-1-AP, 4ug; Detection:19677-1-AP 1:300) with NIH/3T3 cells lysate 3440 ug.



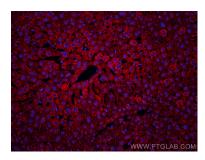
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 19677-1-AP (Caspase 3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 $^{\rm C}$  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 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).