For Research Use Only

Caspase 3/P17/P19 Polyclonal antibody

Catalog Number: 19677-1-AP

Featured Product

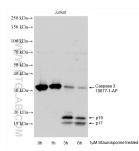
2443 Publications



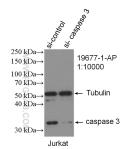
Basic Information	Catalog Number: 19677-1-AP	GenBank Acc NM_004346	ession Number:	Purification Method: Antigen affinity purification	
	Concentration:	GeneID (NCB	I):	Recommended Dilutions:	
	600 ug/ml 836 Source: UNIPROT ID: Rabbit P42574			WB: 1:500-1:2000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total	
				protein lysate	
	Isotype:	Full Name:		IHC: 1:50-1:500 IF-P: 1:200-1:800	
	peptidase		optosis-related cysteine	s-related cysteine IF/ICC: 1:50-1:500	
		Calculated M 32 kDa	IW:		
	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		Positive Contr	Positive Controls:	
				WB : Jurkat cells, mouse spleen tissue, HeLa cells, Staurosporine treated Jurkat cells, rat brain tissue, ra liver tissue	
			IP : NIH/3T3 ce	IP : NIH/3T3 cells,	
				IHC : mouse brain tissue, human teeth tissue, human	
			sh, IF-P : mouse li	spleen tissue, human kidney tissue IF-P : mouse liver tissue, mouse brain tissue, mouse	
	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/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 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	Storage: Store at -20°C. Stable for or Storage Buffer: PBS with 0.02% sodium az Aliquoting is unnecessary	ide and 50% glycerol, pl	17.3		

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

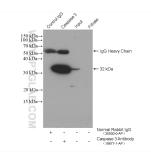
Selected Validation Data



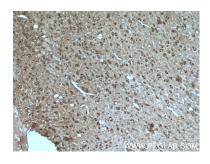
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 19677-1-AP (Caspase 3/p17/p19 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



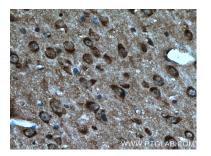
WB result of Caspase 3 antibody (19677-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3 transfected Jurkat cells.



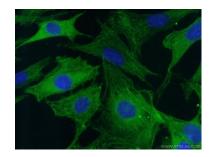
IP result of anti-Caspase 3/p17/p19 (IP:19677-1-AP, 4ug; Detection:19677-1-AP 1:300) with NIH/3T3 cells lysate 3440 ug.



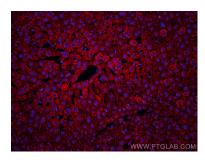
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 19677-1-AP (Caspase 3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).