## For Research Use Only

## Caspase 3/p17/p19 Monoclonal antibody

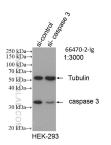


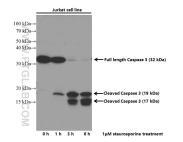
	Featured Product	220 Publications			
Basic Information	Catalog Number: 66470-2-1g	GenBank Accession Number: BC016926	Purification Method: Protein G purification		
	Size:	GenelD (NCBI):	CloneNo.:		
	1500 µg/ml	836	2G4B2		
	Source: Mouse	UNIPROT ID: P42574	Recommended Dilutions: WB 1:1000-1:3000		
	lsotype:	Full Name:	IHC 1:150-1:600		
	lgG1	caspase 3, apoptosis-related cysteine peptidase Calculated MW:			
	Immunogen Catalog Number: AG25029				
		277 aa, 32 kDa			
		Observed MW: 32-35 kDa, 19 kDa, 17 kDa			
Applications	Tested Applications: IHC, WB, ELISA	Positive	Positive Controls: WB : Jurkat cells, HEK-293 cells, HepG2 cells, NIH/3T cells IHC : human breast cancer tissue, mouse liver tissue		
	Cited Applications:				
	WB, IF, IHC, ICC	IHC : hu			
	Species Specificity: Human, mouse	mouse	mouse kidney tissue		
	Cited Species: human, chicken, rat, mouse, pig, plant, canine				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
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 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. This antibody can recognize p17, p19 and p32 of Caspase 3.				
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For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

## Selected Validation Data

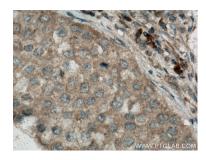




Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66470-2-1g (CASP3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5

hours.

WB result of Caspase 3 antibody (66470-2-lg; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3 transfected HEK-293 cells. Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66470-2-1g (CASP3 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66470-2-1g (CASP3 antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).