

For Research Use Only

Caspase 3/P17/P19 Monoclonal antibody

Catalog Number: 66470-1-Ig **73 Publications**



Basic Information

Catalog Number: 66470-1-Ig	GenBank Accession Number: BC016926	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 836	CloneNo.: 1E7F9
Source: Mouse	UNIPROT ID: P42574	Recommended Dilutions: WB 1:500-1:2000 IHC 1:100-1:400 IF/ICC 1:50-1:500
Isotype: IgG2b	Full Name: caspase 3, apoptosis-related cysteine peptidase	
Immunogen Catalog Number: AG25029	Calculated MW: 277 aa, 32 kDa	
	Observed MW: 32-35 kDa, 19 kDa, 17 kDa	

Applications

Tested Applications: WB, IF, IHC, ELISA	Positive Controls: WB : Jurkat cells, HEK-293 cells
Cited Applications: WB, IHC, IF	IHC : human breast cancer tissue,
Species Specificity: human	IF/ICC : HeLa cells,
Cited Species: human, mouse, rat, pig, zebrafish, sheep, cow	
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

Casp3 (caspase 3), also named as CPP32, SCA-1 and Apopain, belongs to the peptidase C14A family. Caspase 3 is involved in the activation cascade of caspases responsible for apoptosis execution. At the onset of apoptosis it proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp-Gly-217' bond. Caspase 3 cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Cleaves and activates caspase-6, -7 and -9. CASP3 is involved in the cleavage of huntingtin. This antibody is specific for human caspase 3, it can recognize the 32 kDa pro-caspase 3 as well as 17 and 19 kDa cleaved-caspase 3.

Notable Publications

Author	Pubmed ID	Journal	Application
Junxia Hu	31580970	Biomed Pharmacother	WB
Genquan Yue	31702026	Mol Med Rep	WB
Ruizhi Yao	30231545	Int J Mol Sci	WB

Storage

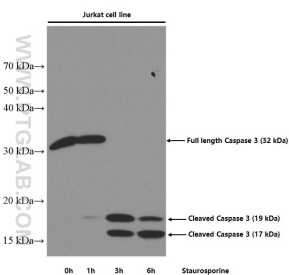
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

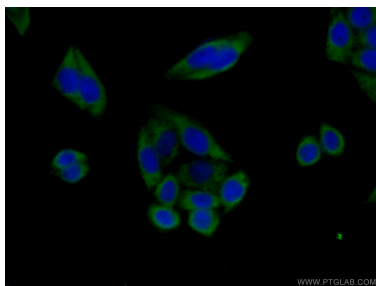
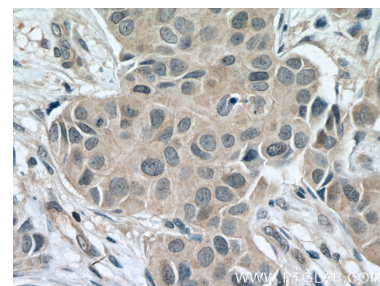
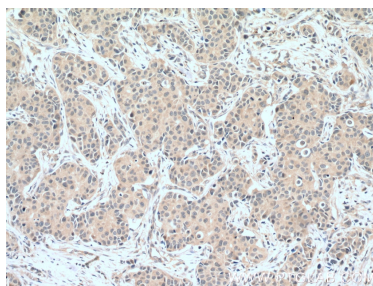
For technical support and original validation data for this product please contact:
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Selected Validation Data



Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66470-1-Ig (CASP3(human specific) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 66470-1-Ig (Caspase 3(human specific) antibody) at dilution of 1:100 and CoraLite488-Conjugated Goat Anti-Mouse IgG(H+L).