For Research Use Only

Caspase 3/P17/P19 Monoclonal antibody

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Catalog Number:66470-2-Ig

Featured Product

302 Publications

Basic Information

Catalog Number: GenBank Accession Number: **Purification Method:** 66470-2-lg BC016926 Protein G purification

GeneID (NCBI): CloneNo.: Size: 150ul, Concentration: 1500 ug/ml by 836 2G4B2

Nanodrop: **UNIPROT ID:** Recommended Dilutions: P42574 WB 1:1000-1:3000 IHC 1:150-1:600 Mouse Full Name: caspase 3, apoptosis-related cysteine IF/ICC 1:200-1:800 Isotype:

lgG1 peptidase Immunogen Catalog Number: Calculated MW: AG25029 277 aa. 32 kDa

32-35 kDa, 19 kDa, 17 kDa

Observed MW:

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA

Cited Applications: WB, IHC, IF, ICC

Species Specificity: human, mouse Cited Species:

human, mouse, rat, pig, canine, chicken, plant

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

Positive Controls:

WB: Jurkat cells, HEK-293 cells, HepG2 cells, NIH/3T3

IHC: human breast cancer tissue, mouse liver tissue,

mouse kidney tissue IF/ICC: HepG2 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 of 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Jingjing Zheng	32978798	Ann N Y Acad Sci	WB
Yang Liu	36149580	Cell Stress Chaperones	WB
Yaling Zhang	36233452	J Clin Med	IF

Storage

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

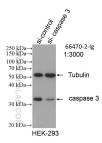
in USA), or 1(312) 455-8498 (outside USA)

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com

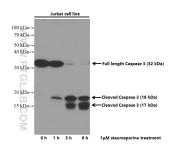
W: ptglab.com

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

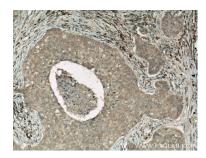
Selected Validation Data



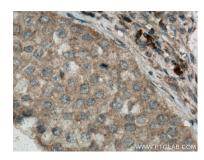
WB result of Caspase 3 antibody (66470-2-1g; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3 transfected HEK-293 cells.



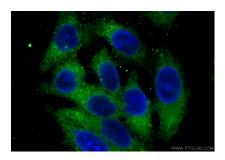
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66470-2-Ig (CASP3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5



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



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Caspase 3/p17/p19 antibody (66470-2-Ig, Clone: 2G4B2) at dilution of 1:400 and Multi-rAb Coralite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).