For Research Use Only

Caspase 3/P17/P19 Monoclonal antibody



Catalog Number:66470-2-Ig

Featured Product

354 Publications

Basic Information

Applications

Catalog Number: 66470-2-lg Concentration: 1500 ug/ml

Source: Mouse Isotype: lgG1

Immunogen Catalog Number:

AG25029

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

Cited Applications: WB, IHC, IF

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

GenBank Accession Number:

BC016926 GeneID (NCBI):

UNIPROT ID: P42574 Full Name:

836

caspase 3, apoptosis-related cysteine IF/ICC: 1:200-1:800 peptidase

Calculated MW: 277 aa. 32 kDa Observed MW:

32-35 kDa, 19 kDa, 17 kDa

Positive Controls:

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

Purification Method:

Protein G purification

Recommended Dilutions:

WB: 1:1000-1:3000 IHC: 1:150-1:600

CloneNo.:

2G4B2

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
Genquan Yue	31702026	Mol Med Rep	WB
Yang Liu	36149580	Cell Stress Chaperones	WB

Storage

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

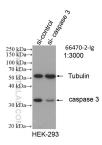
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

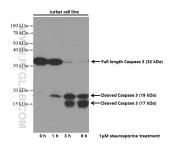
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com W: ptgcn.com

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

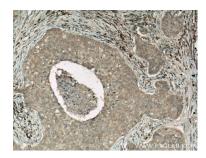
Selected Validation Data



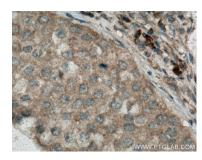
WB result of Caspase 3 antibody (66470-2-1g; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3 transfected HEK-293 cells.



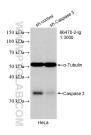
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66470-2-Ig (CASP3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5



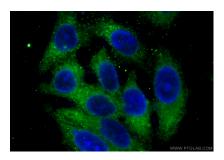
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66470-2-lg (CASP3 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



WB result of Caspase 3/P17/P19 antibody (66470-2-lg; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3/P17/P19 transfected HeLa cells.



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