For Research Use Only

Caspase 3/P17/P19 Polyclonal antibody

Catalog Number: 19677-1-AP

Featured Product

2443 Publications



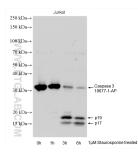
| Basic Information | Catalog Number: 19677-1-AP | GenBank Accession Number: NM_004346 | | Purification Method: Antigen affinity purification | | | | |
|--|---|---|--|---|-----------------|---|--|--|
| | Size: | GeneID (NCBI): 836 UNIPROT ID: P42574 Full Name: | | Recommended Dilutions: WB: 1:500-1:2000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500 IF-P: 1:200-1:800 | | | | |
| | 150ul , Concentration: 900 ug/ml by Nanodrop; Source: Rabbit | | | | | | | |
| | | | | | lsotype: IgG | caspase 3, apoptosis-related cysteine IF/ICC: 1:50-1:500 peptidase | | |
| | | | | | | Calculated MW: 32 kDa | | |
| | | Observed MW: 32-35 kDa, 17 kDa, 19 kDa | | | | | | |
| | Applications | Tested Applications: | | Positive Controls: | | | | |
| | | WB, IHC, IF/ICC, IF-P, IP, ELISA Cited Applications: WB, IHC, IF, IP, RIP, ELISA | | WB : Jurkat cells, mouse spleen tissue, HeLa cells, Staurosporine treated Jurkat cells, rat brain tissue, ra liver tissue | | | | |
| Species Specificity: | | IP : NIH/3T3 cells, | | | | | | |
| human, mouse, rat Cited Species: | | IHC : mouse brain tissue, human teeth tissue, humar spleen tissue, human kidney tissue | | | | | | |
| human, mouse, rat, rabbit, monkey, chicken, zebrafish, hamster, sheep, goat | | IF-P : mouse liver tissue, mouse brain tissue, mouse eye tissue | | | | | | |
| 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/3 | T3 cells, HeLa cells | | | | | |
| | 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. | | | | | | | |
| Background Information | named CPP32, SCA-1, and Apopain) apoptosis. Caspase 3 plays a key role between the basic helix-loop-helix l also form heterocomplex with other | proteolytically cleaves e in the activation of st eucine zipper domain a proteins and performs t | poly(ADP-ribose erol regulatory e and the membra | e) polymerase (PARP) at the beginning lement binding proteins (SREBPs) ne attachment domain. Caspase 3 can | | | | |
| | named CPP32, SCA-1, and Apopain) apoptosis. Caspase 3 plays a key role between the basic helix-loop-helix l also form heterocomplex with other antibody can recognize p17, p19 and | proteolytically cleaves e in the activation of st eucine zipper domain a proteins and performs t | poly(ADP-ribosi erol regulatory e and the membra the molecular m | e) polymerase (PARP) at the beginning lement binding proteins (SREBPs) ne attachment domain. Caspase 3 can | | | | |
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| | named CPP32, SCA-1, and Apopain) apoptosis. Caspase 3 plays a key role between the basic helix-loop-helix l also form heterocomplex with other antibody can recognize p17, p19 and Author Put Xin Shen 361 | proteolytically cleaves e in the activation of st eucine zipper domain a proteins and performs t p32 of Caspase 3. pmed ID Journ 184549 Int He | : poly(ADP-ribos erol regulatory e and the membras the molecular m | e) polymerase (PARP) at the beginning lement binding proteins (SREBPs) ne attachment domain. Caspase 3 can ass of 50-70 kDa(PMID:9747872). This Application | | | | |
| | named CPP32, SCA-1, and Apopain) apoptosis. Caspase 3 plays a key role between the basic helix-loop-helix l also form heterocomplex with other antibody can recognize p17, p19 and Author Put Xin Shen 361 Xiao-Feng Zhu 361 | proteolytically cleaves e in the activation of st eucine zipper domain a proteins and performs t p32 of Caspase 3. med ID Journ 184549 Int He 180975 Phyto | eroly(ADP-ribos erol regulatory e and the membrai the molecular m nal | e) polymerase (PARP) at the beginning lement binding proteins (SREBPs) he attachment domain. Caspase 3 can ass of 50-70 kDa(PMID:9747872). This Application WB | | | | |
| Background Information Notable Publications Storage | named CPP32, SCA-1, and Apopain) apoptosis. Caspase 3 plays a key role between the basic helix-loop-helix l also form heterocomplex with other antibody can recognize p17, p19 and Author Put Xin Shen 361 Xiao-Feng Zhu 361 | proteolytically cleaves e in the activation of st eucine zipper domain a proteins and performs t p32 of Caspase 3. omed ID Journ 184549 Int He 180975 Phyto 230734 Cance ter shipment. | and the membran the molecular m and the membran the molecular m and ant J ther Res | e) polymerase (PARP) at the beginning lement binding proteins (SREBPs) ne attachment domain. Caspase 3 can ass of 50-70 kDa(PMID:9747872). This Application WB WB | | | | |

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

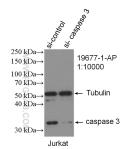
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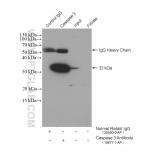
Selected Validation Data



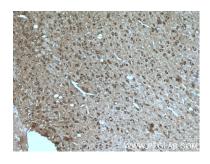
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 19677-1-AP (Caspase 3/p17/p19 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



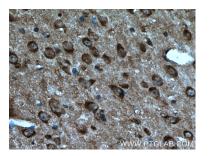
WB result of Caspase 3 antibody (19677-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3 transfected Jurkat cells.



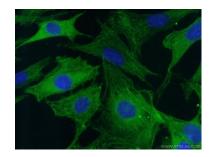
IP result of anti-Caspase 3/p17/p19 (IP:19677-1-AP, 4ug; Detection:19677-1-AP 1:300) with NIH/3T3 cells lysate 3440 ug.



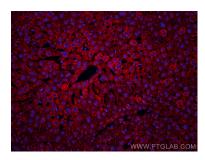
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 19677-1-AP (Caspase 3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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°C Ethanol) fixed NIH/3T3 cells using 19677-1-AP (Caspase 3 antibody) at dilution of 1:50 and Alexa Fluor 488conjugated 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).