## For Research Use Only

## Caspase 3/P17/P19 Polyclonal antibody

Catalog Number: 19677-1-AP

**Featured Product** 

2369 Publications



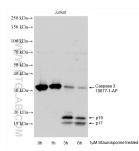
| Basic Information      | Catalog Number:<br>19677-1-AP   | r: GenBank Accession Number:<br>NM_004346 |                          | Purification Method:<br>Antigen affinity purification   |  |
|------------------------|---|---|--------------------------|---|--|
|                        | Concentration:  | GenelD (NCB                               | l):                      | Recommended Dilutions:  |  |
|                        | 600 ug/ml 836<br>Source: UNIPROT ID:  |   |                          | WB 1:500-1:2000<br>IP 0.5-4.0 ug for 1.0-3.0 mg of total  |  |
|                        | Rabbit  | P42574                                    |                          | protein lysate<br>IHC 1:50-1:500<br>IF-P 1:200-1:800<br>ine IF/ICC 1:50-1:500   |  |
|                        | Isotype:  | Full Name:                                |                          |   |  |
|                        | lgG   | caspase 3, ap<br>peptidase                | optosis-related cysteine |   |  |
|                        |   | Calculated M<br>32 kDa                    | W:                       |   |  |
|                        | Observed MW:<br>32-35 kDa, 17 kDa,  |   |                          | 19 kDa  |  |
| Applications           | Tested Applications:<br>WB, IHC, IF/ICC, IF-P, IP, ELISA<br>Cited Applications:<br>WB, IHC, IF, IP, RIP, ELISA<br>Species Specificity:<br>human, mouse, rat<br>Cited Species:<br>human, mouse, rat, rabbit, monkey, chicken, zebrafish,<br>hamster, sheep, goat   |   | Positive Contr           | Positive Controls:<br>WB : Jurkat cells, mouse spleen tissue, HeLa cells,<br>Staurosporine treated Jurkat cells, rat brain tissue, ra<br>liver tissue |  |
|                        |   |   | Staurosporine            |   |  |
|                        |   |   | IP: NIH/3T3 ce           | IP : NIH/3T3 cells,   |  |
|                        |   |   |                          | IHC : mouse brain tissue, human teeth tissue, human<br>spleen tissue, human kidney tissue   |  |
|                        |   |   | sh,<br>IF-P : mouse li   | IF-P : mouse liver tissue, mouse brain tissue, mouse eye tissue   |  |
|                        | Note-IHC: suggested antigen retrieval with<br>TE buffer pH 9.0; (*) Alternatively, antigen<br>retrieval may be performed with citrate<br>buffer pH 6.0  |   | h                        | IF/ICC : NIH/3T3 cells, HeLa 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 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. |   |                          |   |  |
| Notable Publications   | Author  | Pubmed ID                                 | Journal                  | Application   |  |
|                        | Xin Shen  | 36184549                                  | Int Heart J              | WB  |  |
|                        | Xiao-Feng Zhu   | 36180975                                  | Phytother Res            | WB  |  |
|                        | Ji Xing   | 36230734                                  | Cancers (Basel)          | WB  |  |
| Storage                | Storage:<br>Store at -20°C. Stable for or<br>Storage Buffer:<br>PBS with 0.02% sodium azi<br>Aliquoting is unnecessary f  | ide and 50% glycerol, pH                  | 17.3                     |   |  |

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

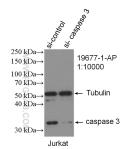
 T: 4006900926
 E: Proteintech-CN@ptglab.com
 W: ptgcn.com

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

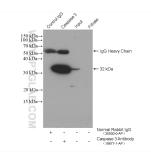
## Selected Validation Data



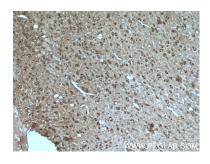
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 19677-1-AP (Caspase 3/p17/p19 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



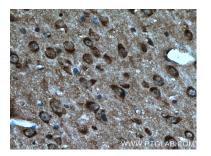
WB result of Caspase 3 antibody (19677-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 3 transfected Jurkat cells.



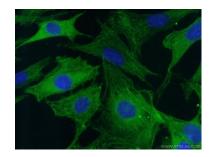
IP result of anti-Caspase 3/p17/p19 (IP:19677-1-AP, 4ug; Detection:19677-1-AP 1:300) with NIH/3T3 cells lysate 3440 ug.



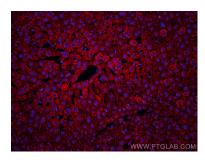
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 19677-1-AP (Caspase 3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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