

For Research Use Only

# CoraLite® Plus 488-conjugated Caspase 3/P17/P19 Monoclonal antibody



Catalog Number: CL488-66470

Featured Product

## Basic Information

Catalog Number:

CL488-66470

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG25029

GenBank Accession Number:

BC016926

GeneID (NCBI):

836

UNIPROT ID:

P42574

Full Name:

caspase 3, apoptosis-related cysteine peptidase

Calculated MW:

277 aa, 32 kDa

Observed MW:

32-35 kDa, 19 kDa, 17 kDa

Purification Method:

Protein A purification

CloneNo.:

2G4B2

Recommended Dilutions:

IF-P 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF-P

Species Specificity:

human, mouse, rat

Positive Controls:

IF-P: mouse brain tissue, human kidney tissue

## 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.

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

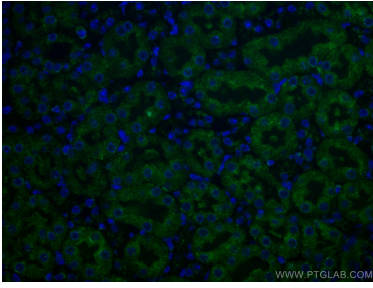
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

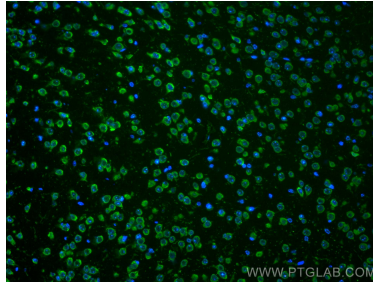
W: [ptgcn.com](http://ptgcn.com)

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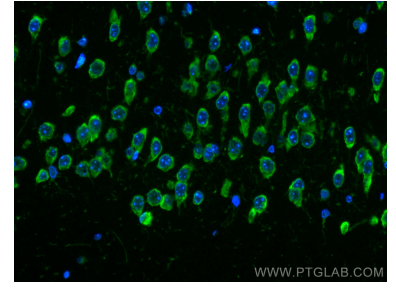
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using CoraLite® Plus 488 Caspase 3/p17/p19 antibody (CL488-66470, Clone: 2G4B2 ) at dilution of 1:100.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite® Plus 488 Caspase 3/p17/p19 antibody (CL488-66470, Clone: 2G4B2 ) at dilution of 1:200.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite® Plus 488 Caspase 3/p17/p19 antibody (CL488-66470, Clone: 2G4B2 ) at dilution of 1:200.