

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 µg/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 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 : human kidney tissue, mouse brain 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:

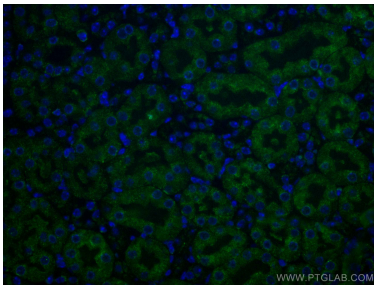
T: 4006900926

E: Proteintech-CN@ptglab.com

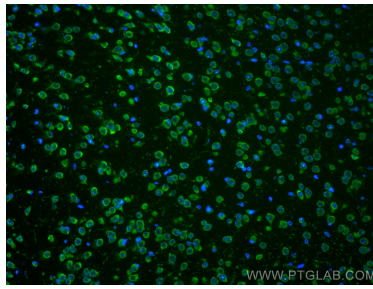
W: ptgcn.com

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

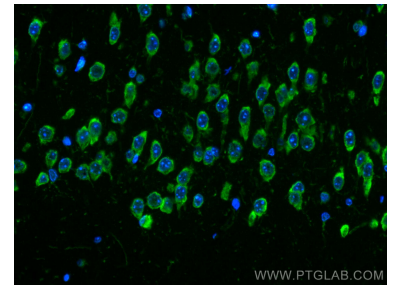
Selected Validation Data



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.