

For Research Use Only

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



Catalog Number: CL488-66470

Featured Product

## Basic Information

<b>Catalog Number:</b> CL488-66470	<b>GenBank Accession Number:</b> BC016926	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 836	<b>CloneNo.:</b> 2G4B2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P42574	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> caspase 3, apoptosis-related cysteine peptidase	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG25029	<b>Calculated MW:</b> 277 aa, 32 kDa	
	<b>Observed MW:</b> 32-35 kDa, 19 kDa, 17 kDa	

## 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

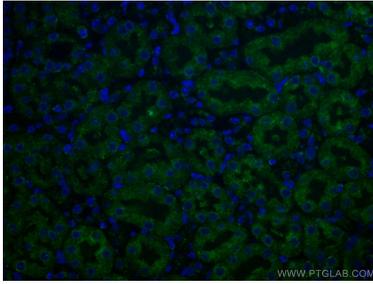
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

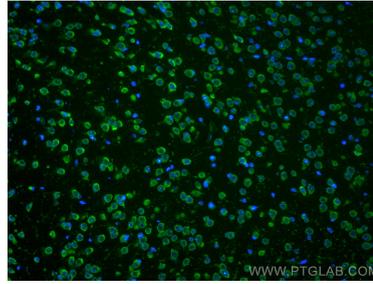
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

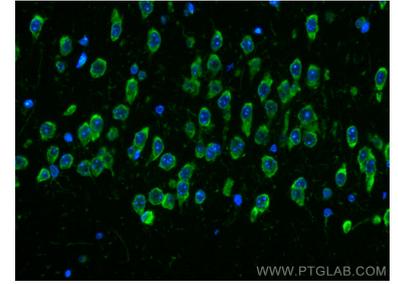
## Selected Validation Data



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.