

For Research Use Only

# Cleaved Caspase 3; p17 Monoclonal antibody



Catalog Number: 68773-1-Ig

## Basic Information

**Catalog Number:**

68773-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**GenBank Accession Number:**

NM\_032991

**GeneID (NCBI):**

836

**UNIPROT ID:**

P42574

**Full Name:**

caspase 3, apoptosis-related cysteine peptidase

**Calculated MW:**

32 kDa

**Observed MW:**

17 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

2F7B8

**Recommended Dilutions:**

WB 1:5000-1:50000

IF 1:500-1:2000

## Applications

**Tested Applications:**

WB, IF, FC, ELISA

**Species Specificity:**

Human, rat

**Positive Controls:**

**WB:** Jurkat cells, A2780 cells, HepG2 cells, HSC-T6 cells, Ramos cells

**IF:** 1 µM Staurosporine (1/3/6 hour) treated Jurkat 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 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 form heterocomplex with other proteins. This antibody can recognize p17 of Caspase 3. This antibody is specific for cleaved caspase 3, and does not recognize full length caspase-3, it can recognize the 17 kDa cleaved-caspase 3. The cleaved P17 and P19 fragment might form complex and shows at around 30-35 kDa by western blot (PMID: 25501826).

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

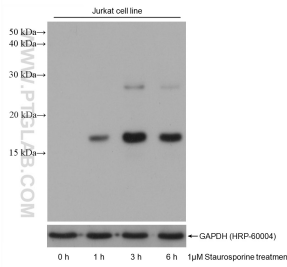
T: 4006900926

E: Proteintech-CN@ptglab.com

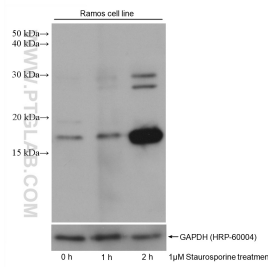
W: ptgcn.com

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

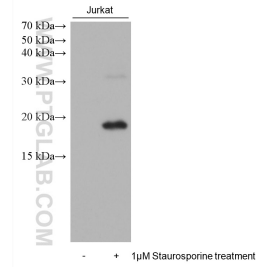
## Selected Validation Data



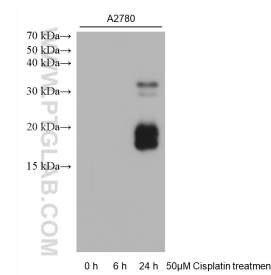
Various lysates were subjected to SDS PAGE followed by western blot with 68773-1-Ig (Cleaved Caspase 3; p17 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



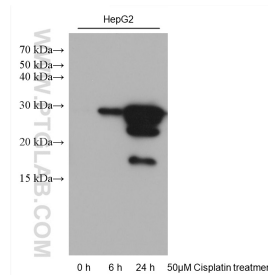
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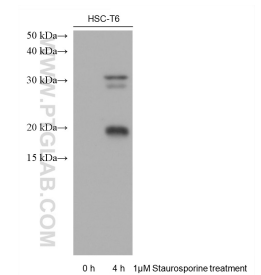
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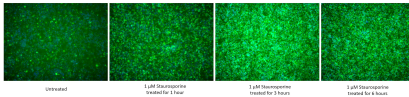
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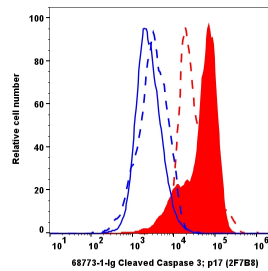
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Immunofluorescent analysis of (4% PFA) fixed  $1 \mu\text{M}$  Staurosporine (1/3/6 hour) treated Jurkat cells using Cleaved Caspase 3; p17 antibody (68773-1-Ig, Clone: 2F7B8) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L)(Cat.NO. RGAM002).



$1 \times 10^6$  Jurkat cells were intracellularly stained with  $0.2 \mu\text{g}$  Cleaved Caspase 3; p17 Monoclonal antibody (68773-1-Ig, Clone:2F7B8) and CoraLite488-conjugated Goat Anti-Mouse IgG(H+L) (Cat.NO. SA00013-1), and  $0.2 \mu\text{g}$  KLH (66360-1-Ig, Clone: T1F8D3F10). Cells were fixed with 4% PFA.