

For Research Use Only

# Cleaved Caspase 3; p17 Monoclonal antibody

Catalog Number: 68773-1-Ig

1 Publications



## Basic Information

<b>Catalog Number:</b> 68773-1-Ig	<b>GenBank Accession Number:</b> NM_032991	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 836	<b>CloneNo.:</b> 2F7B8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P42574	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:500-1:2000
<b>Isotype:</b> IgG1	<b>Full Name:</b> caspase 3, apoptosis-related cysteine peptidase	
	<b>Calculated MW:</b> 32 kDa	
	<b>Observed MW:</b> 17 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** Jurkat cells, A2780 cells, BV-2 cells, HepG2 cells, HSC-T6 cells, Ramos cells

**IHC :** human lymphoma tissue, Jurkat cells

**IF/ICC :** 1 µM Staurosporine (1/3/6 hour) treated Jurkat cells, 50 µM Cisplatin (18 hours) treated BV-2 cells, 1 µM Staurosporine (1/3/6 hour) treated HSC-T6 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yi Chen	35634368	Front Nutr	WB

## 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

\*\*\* 20ul sizes contain 0.1% BSA

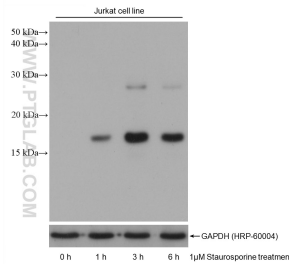
For technical support and original validation data for this product please contact:

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

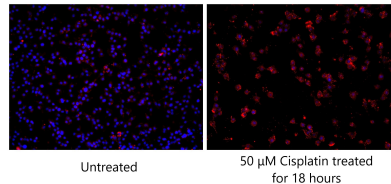
E: proteintech@ptglab.com  
W: ptglab.com

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

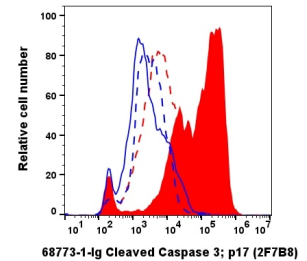
## Selected Validation Data



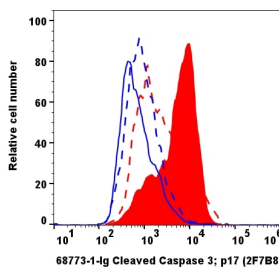
Various lysates were subjected to SDS PAGE followed by western blot with 68773-1-Ig (Cleaved Caspase 3; p17 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



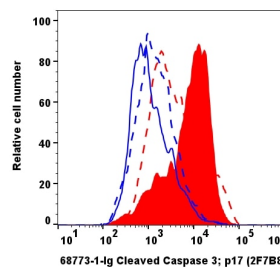
Immunofluorescent analysis of (4% PFA) fixed 50 µM Cisplatin (18 hours) treated BV-2 cells using Cleaved Caspase 3; p17 antibody (68773-1-Ig, Clone: 2F7B8) at dilution of 1:1000 and Multi-rAb Coralite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



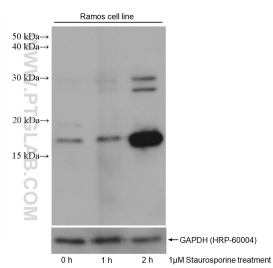
1x10<sup>6</sup> non-treated BV-2 cells (dash lines) and cisplatin treated BV-2 cells (solid lines) were intracellularly stained with 0.2 µg Cleaved Caspase 3; p17 Monoclonal antibody (68773-1-Ig, Clone: 2F7B8, red) and Multi-rAb Coralite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM005), Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA.



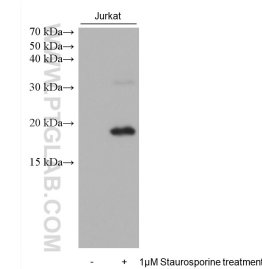
1x10<sup>6</sup> non-treated Jurkat cells (dash lines) and staurosporine treated Jurkat cells (solid lines) were intracellularly stained with 0.1 µg Cleaved Caspase 3; p17 Monoclonal antibody (68773-1-Ig, Clone: 2F7B8, red) and Multi-rAb Coralite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM005), Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA.



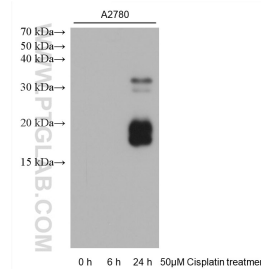
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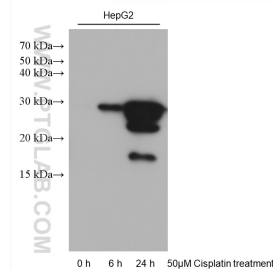
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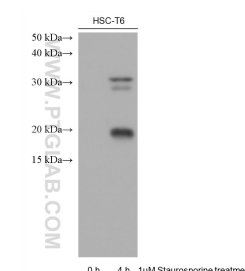
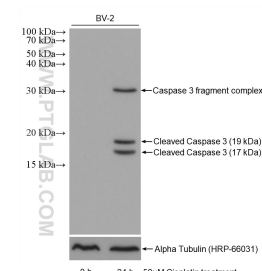
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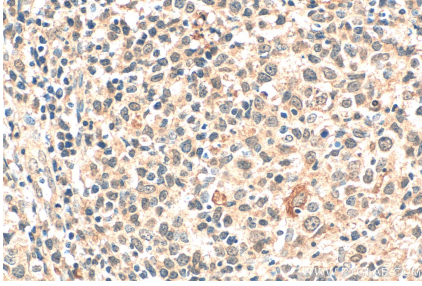
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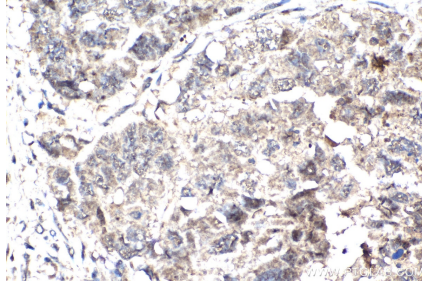
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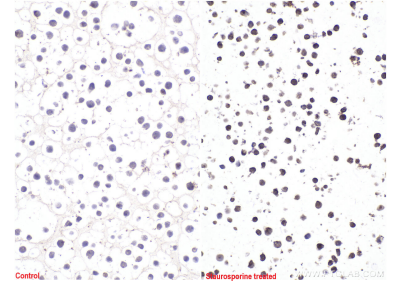
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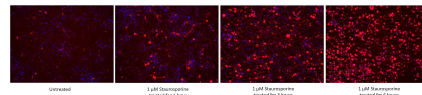
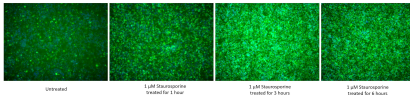
Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 68773-1-Ig (Cleaved Caspase 3; P17 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 68773-1-Ig (Cleaved Caspase 3; P17 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 68773-1-Ig (Cleaved Caspase 3; P17 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded Jurkat cells slide using 68773-1-Ig (Cleaved Caspase 3; p17 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed non-treated and 1  $\mu$ M Staurosporine (1/3/6 hours) 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 ).

Immunofluorescent analysis of (4% PFA) fixed non-treated and 1  $\mu$ M Staurosporine (1/3/6 hours) treated HSC-T6 cells using Cleaved Caspase 3; p17 antibody (68773-1-Ig, Clone: 2F7B8 ) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).