

For Research Use Only

Cleaved Caspase 3; p17 Monoclonal antibody



Catalog Number: 68773-1-Ig

Basic Information

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

Applications

Tested Applications:
WB, IF, ELISA

Species Specificity:
Human

Positive Controls:

WB: Jurkat cells, Ramos cells

IF: 1 µM Staurosporine (1/3/6 hours) 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.

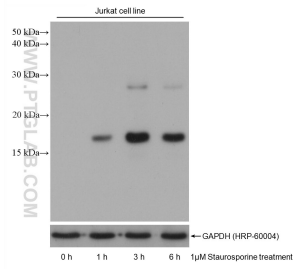
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

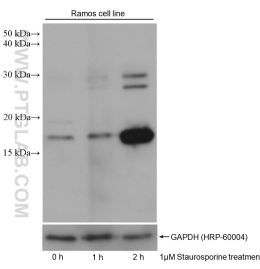
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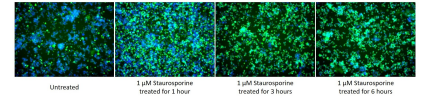
Selected Validation Data



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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Immunofluorescent analysis of (4% PFA) fixed 1 μM Staurosporine (1/3/6 hours) treated and untreated Jurkat cells using Cleaved Caspase 3; p17 antibody (68773-1-Ig, Clone: 2F7B8) at dilution of 1:1000 and CoraLite488-conjugated Goat Anti-Mouse IgG(H+L) (Cat.NO. SA00013-1).