

For Research Use Only

# Caspase 9/p35/p10 Monoclonal antibody



Catalog Number: 66169-1-Ig **95 Publications**

## Basic Information

<b>Catalog Number:</b> 66169-1-Ig	<b>GenBank Accession Number:</b> BC002452	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 2700 µg/ml by Nanodrop and 1500 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 842	<b>CloneNo.:</b> 1B7G2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P55211	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:100-1:400 IF 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> caspase 9, apoptosis-related cysteine peptidase	
<b>Immunogen Catalog Number:</b> AG20813	<b>Calculated MW:</b> 46 kDa	
	<b>Observed MW:</b> 46 kDa, 35 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, Jurkat cells IP : HeLa cells, IHC : human lymphoma tissue, human pancreas tissue IF : HeLa cells,
<b>Cited Applications:</b> WB, IHC, IF, ELISA	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, rat, sheep, mouse, pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Caspase 9, apoptosis-related cysteine protease (CASP9, synonyms: MCH6, APAF3, APAF-3, ICE-LAP6, CASPASE-9c) is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. Caspase 9 is processed by caspase APAF1; this step is thought to be one of the earliest in the caspase activation cascade. In recent years, the localization of caspase 9 was a focus of interest. Beside its cytoplasmic distribution, a very extensive localization study was done on rat brain tissue, where caspase 9 was found located predominantly in the nucleus and to a lesser extent in the cytoplasm [PMID: 15541731].

## Notable Publications

Author	Pubmed ID	Journal	Application
Dan Mo	31568784	Eur J Pharmacol	WB
Na Jiang	32975326	Cell Prolif	WB
Xinbo Wu	32914567	J Cell Mol Med	WB

## Storage

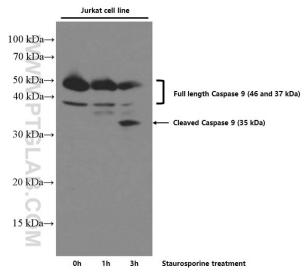
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

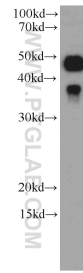
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

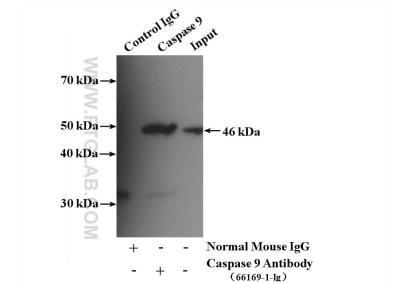
## Selected Validation Data



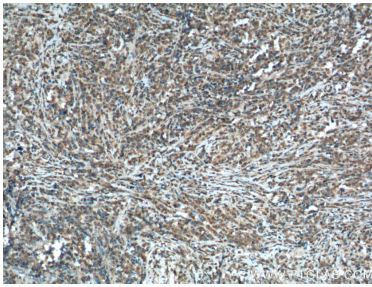
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66169-1-Ig (Caspase 9/p35/p10 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



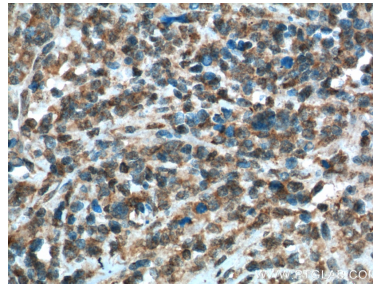
HeLa cells were subjected to SDS PAGE followed by western blot with 66169-1-Ig (Caspase 9/p35/p10 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



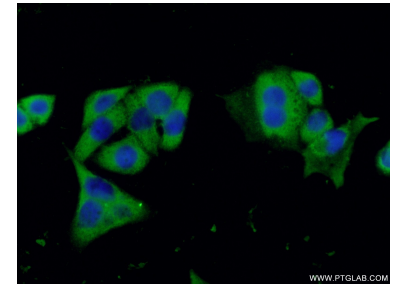
IP result of anti-Caspase 9/p35/p10 (IP:66169-1-Ig, 5ug; Detection:66169-1-Ig 1:500) with HeLa cells lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 66169-1-Ig (Caspase 9/p35/p10 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 66169-1-Ig (Caspase 9/p35/p10 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol ) fixed HeLa cells using 66169-1-Ig(Caspase 9/p35/p10 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).