

For Research Use Only

# Caspase 9/P35/P10 Monoclonal antibody

Catalog Number: 66169-1-Ig

118 Publications



## Basic Information

Catalog Number:

66169-1-Ig

Size:

150ul, Concentration: 2700 ug/ml by 842  
Nanodrop and 1500 ug/ml by Bradford  
method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG20813

GenBank Accession Number:

BC002452

GeneID (NCBI):

842

UNIPROT ID:

P55211

Full Name:

caspase 9, apoptosis-related cysteine  
peptidase

Calculated MW:

46 kDa

Observed MW:

46 kDa, 35 kDa

Purification Method:

Protein A purification

CloneNo.:

1B7G2

Recommended Dilutions:

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/ICC: 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, ELISA

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, pig, sheep

**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: HeLa cells, Jurkat cells

IP: HeLa cells,

IHC: human lymphoma tissue, human pancreas tissue

IF/ICC: HeLa cells,

## 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

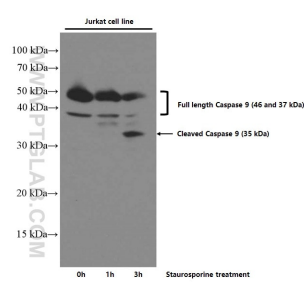
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T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
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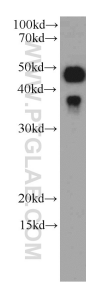
E: proteintech@ptglab.com  
W: ptglab.com

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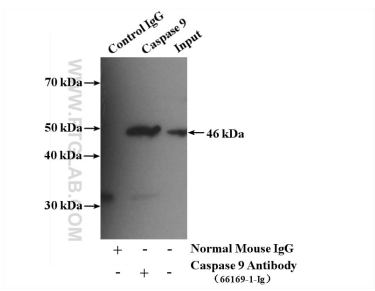
Selected Validation Data



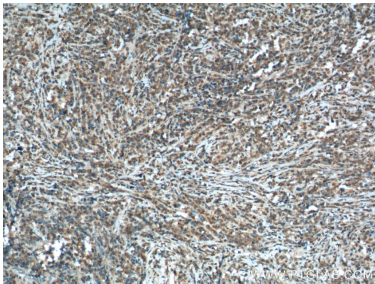
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66169-1-Ig (Caspase 9/P35/P10 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



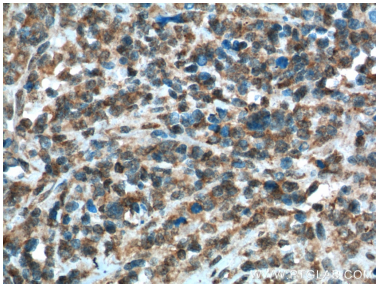
HeLa cells were subjected to SDS PAGE followed by western blot with 66169-1-Ig (Caspase 9/P35/P10 antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.



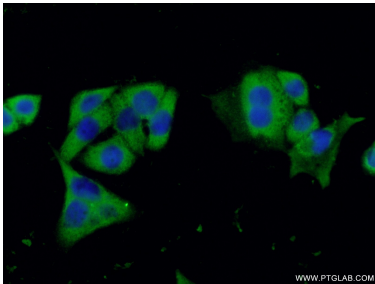
IP result of anti-Caspase 9/P35/P10 (IP:66169-1-Ig, 5ug; Detection:66169-1-Ig 1:500) with HeLa cells lysate 3200ug.



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).