

For Research Use Only

# Caspase 9/P35/P10 Monoclonal antibody, PBS Only (Capture)

Catalog Number: 66169-1-PBS



## Basic Information

<b>Catalog Number:</b> 66169-1-PBS	<b>GenBank Accession Number:</b> BC002452	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 842	<b>CloneNo.:</b> 1B7G2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P55211	
<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

**Tested Applications:**  
WB, IHC, IF/ICC, IP, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse

## Product Information

66169-1-PBS targets Caspase 9/P35/P10 as part of a matched antibody pair.

MP50283-1: 66169-1-PBS capture and 66169-2-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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 caspase9 was a focus of interest. Beside its cytoplasmic distribution, a very extensive localization study was done on rat brain tissue, where caspase9 was found located predominantly in the nucleus and to a lesser extent in the cytoplasm [PMID: 15541731].

## Storage

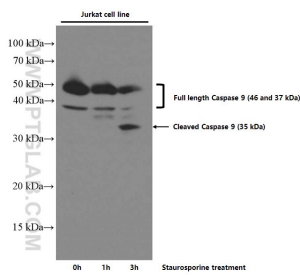
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

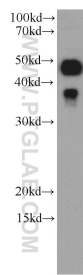
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

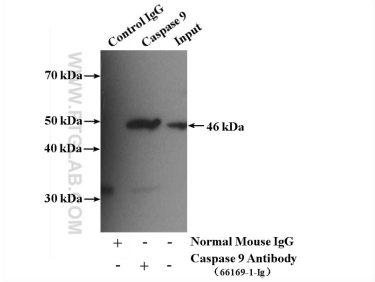
Selected Validation Data



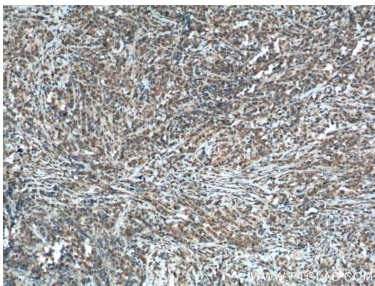
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66169-1-Ig (Caspase 9/P35/P10 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66169-1-PBS in a different storage buffer formulation.



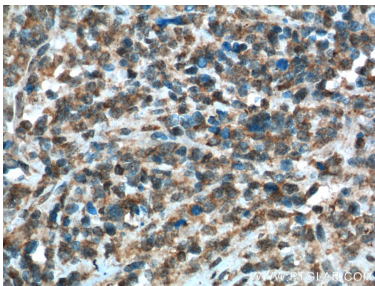
HeLa cells were subjected to SDS PAGE followed by western blot with 66169-1-Ig (Caspase 9/P35/P10 antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66169-1-PBS in a different storage buffer formulation.



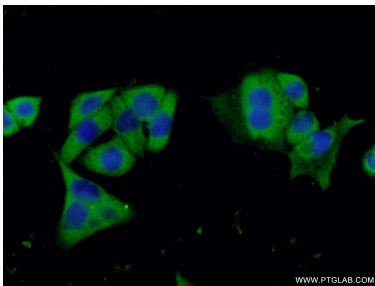
IP result of anti-Caspase 9/P35/P10 (IP:66169-1-Ig, 5ug; Detection:66169-1-Ig 1:500) with HeLa cells lysate 3200ug. This data was developed using the same antibody clone with 66169-1-PBS in a different storage buffer formulation.



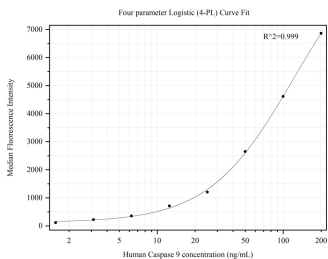
Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 66169-1-Ig (Caspase 9/P35/P10 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66169-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66169-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66169-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP50283-1, Caspase 9 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66169-1-PBS. Detection antibody: 66169-2-PBS. Standard:Ag20813. Range: 1.563-200 ng/mL