For Research Use Only

Caspase 9/p35/p10 Monoclonal antibody

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Catalog Number:66169-1-Ig 95 Publications

Basic Information

Catalog Number:
66169-1-Ig

Size:
2700 μg/ml

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 1:50-1:500

Applications

Tested Applications:
IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
WB,IHC,IF,ELISA

Species Specificity:
human, mouse

Cited Species:
human, rat, sheep, mouse, pig

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 : 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. Capase 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 extend in the cytoplasm [PMID: 15541731].

Notable Publications

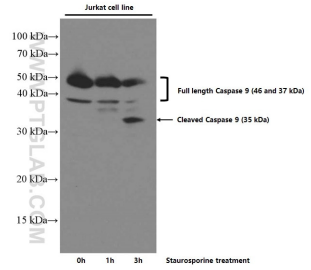
Author	Pubmed ID	Journal	Application
Dan Mo	31568784	Eur J Pharmacol	WB
Na Jiang	32975326	Cell Prolif	WB
Xinbo Wu	32914567	J Cell Mol Med	WB

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

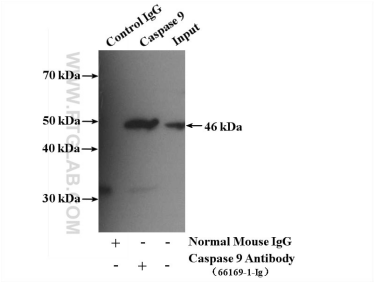
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data

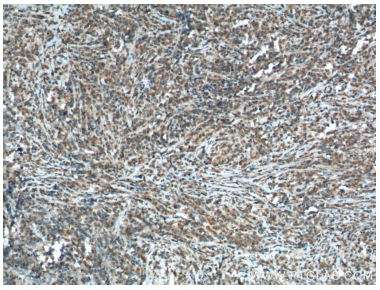


Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66169-1-Ig (Caspase 9/p35/p10 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

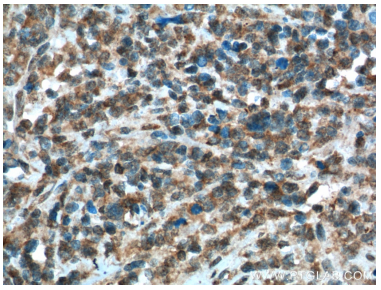
HeLa cells were subjected to SDS PAGE followed by western blot with 66169-1-Ig (Caspase 9/p35/p10 antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.



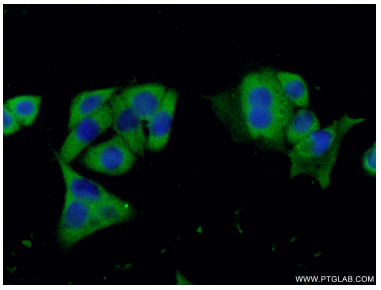
IP result of anti-Caspase 9/p35/p10 (IP:66169-1-Ig, 5ug; Detection:66169-1-Ig 1:500) with HeLa cells lysate 3200ug.



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℃ 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).