

For Research Use Only

Caspase 9/P35/P10 Polyclonal antibody

Catalog Number: 10380-1-AP

Featured Product

829 Publications



Basic Information

Catalog Number:

10380-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0404

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, 30-39 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:300-1:1000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, RIP, ELISA

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, pig, rabbit, chicken, zebrafish, hamster, sheep, goat

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: Jurkat cells, Staurosporine treated Jurkat cells

IP: HeLa cells,

IHC: mouse lung tissue, human heart tissue

IF/ICC: HepG2 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 APAF1; this step is thought to be one of the earliest in the caspase activation cascade. 10380-1-AP can recognize the pre- and cleaved- caspase 9. 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 extend in the cytoplasm [PMID: 15541731].

Notable Publications

Author	Pubmed ID	Journal	Application
Xiao-Feng Zhu	36180975	Phytother Res	WB
Faisal Aziz	26427350	Toxicol In Vitro	WB
Zilu Zhang	34570444	Cancer Biol 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

For technical support and original validation data for this product please contact:

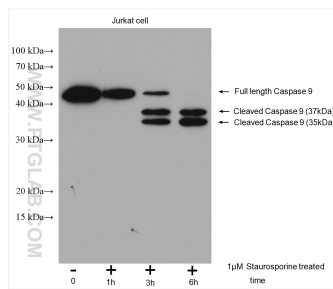
T: 4006900926

E: Proteintech-CN@ptglab.com

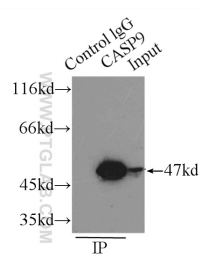
W: ptgcn.com

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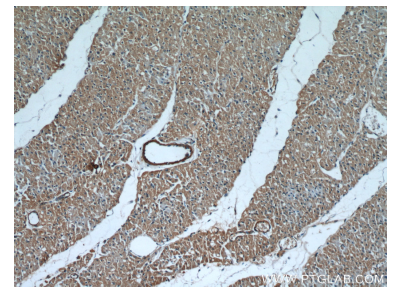
Selected Validation Data



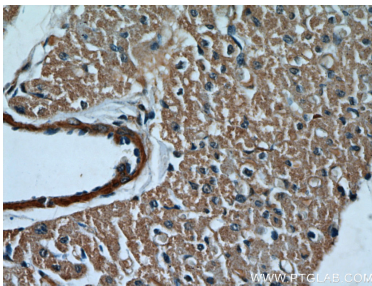
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 10380-1-AP (Caspase 9/P35/P10 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



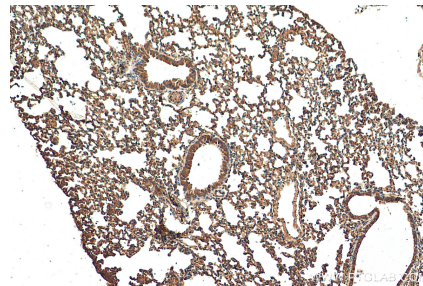
IP result of anti-Caspase 9/P35/P10 (IP:10380-1-AP, 3ug; Detection:10380-1-AP 1:200) with HeLa cells lysate 2500 ug.



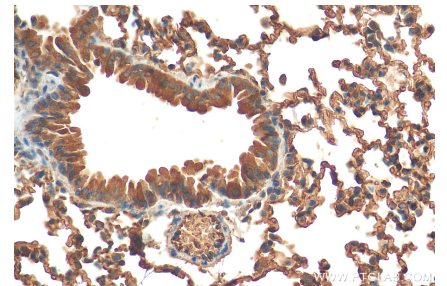
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10380-1-AP (Caspase 9/P35/P10 antibody) at dilution of 1:50 (under 10x lens).



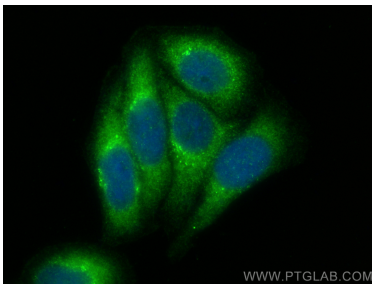
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10380-1-AP (Caspase 9/P35/P10 antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 10380-1-AP (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 mouse lung tissue slide using 10380-1-AP (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 HepG2 cells using Caspase 9/P35/P10 antibody (10380-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).