For Research Use Only

Caspase 9/p35/p10 Polyclonal antibody

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Catalog Number:10380-1-AP Featured Product 698 Publications

Basic Information

Catalog Number:
10380-1-AP

Size:
150ul , Concentration: 500 µg/ml by Nanodrop;

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 1:50-1:200
IF 1:50-1:500

Applications

Tested Applications:
WB, IP, IF, FC, IHC, ELISA

Cited Applications:
WB, IF, RIP, IHC, ELISA

Species Specificity:
human, mouse

Cited Species:
human, goat, rat, sheep, mouse, rabbit, zebrafish, hamster, pig, canine

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, HeLa cells, HL-60 cells, Staurosporine treated Jurkat cells

IP : HeLa cells,

IHC : human heart tissue, mouse lung tissue

IF : 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

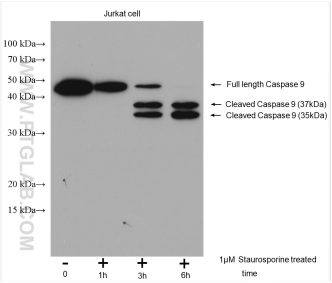
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

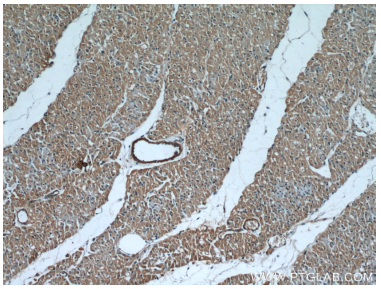
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

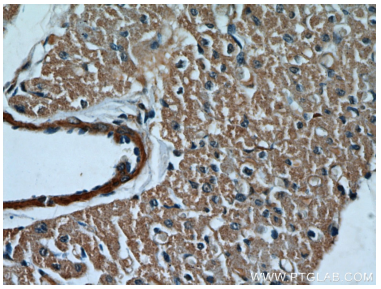
Selected Validation Data



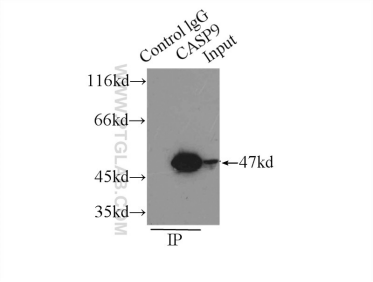
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 10380-1-AP (Caspase 9/p35/p10 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



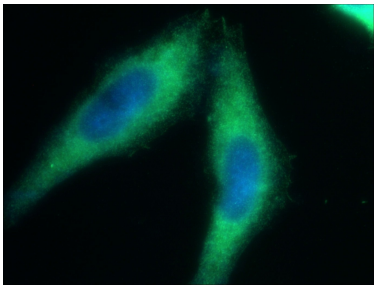
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10380-1-AP (Caspase 9/p35/p10 antibody) at dilution of 1:50 (under 10x lens).



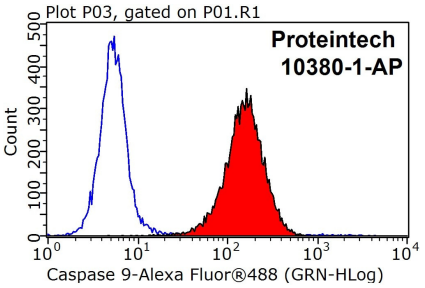
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10380-1-AP (Caspase 9/p35/p10 antibody) at dilution of 1:50 (under 40x lens).



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.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 10380-1-AP (Caspase 9/p35/p10 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 HepG2 cells were stained with 0.2ug Caspase 9/p35/p10 antibody (10380-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.