For Research Use Only

# Caspase 8/p43/p18 Monoclonal antibody

Catalog Number:66093-1-Ig Featured Product 84 Publications

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## Basic Information

Catalog Number:
66093-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG20524

GenBank Accession Number:
BC028223

GeneID (NCBI):
841

UNIPROT ID:
Q14790

Full Name:
caspase 8, apoptosis-related cysteine peptidase

Calculated MW:
538 aa, 62 kDa

Observed MW:
53-57 kDa, 32-45 kDa, 18 kDa

Purification Method:
Protein A purification

CloneNo.:
2B9H8

Recommended Dilutions:
WB 1:2000-1:10000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:100-1:400
IF/ICC 1:400-1:1600

## Applications

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

Cited Applications:
WB, IHC, IF, IP, CoIP, ELISA

Species Specificity:
human

Cited Species:
human, mouse, rat, pig, monkey, chicken, 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 : Jurkat cells, HeLa cells, HepG2 cells, HEK-293 cells

IP : HepG2 cells,

IHC : human liver cancer tissue, human liver tissue

IF/ICC : HeLa cells,

## Background Information

Caspase 8, also named as MCH5, MACH, FLICE, and CAP4, belongs to the peptidase C14A family. It may participate in the GZMB apoptotic pathways and functions as an upstream regulator in a-bisabolol-induced apoptosis. Caspase 8 catalyzes an essential intermediate step in the ubiquitination and proteasome-mediated degradation of IRF3 (PMID:21816816). It may control diabetic embryopathy-associated apoptosis via regulation of the Bid-stimulated mitochondrion/caspase-9 pathway (PMID:19194987). Caspase 8 is expressed as nine isoforms by alternative splicing with the molecular mass from 26 kDa to 62 kDa. This antibody can recognize pro- and cleaved-caspase 8.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Guiying He | 36129672 | Hum Cell | IHC |
| Ni Zeng | 31520740 | Toxicol In Vitro | |
| Huan Liu | 34491469 | Med Oncol | WB |

## Storage

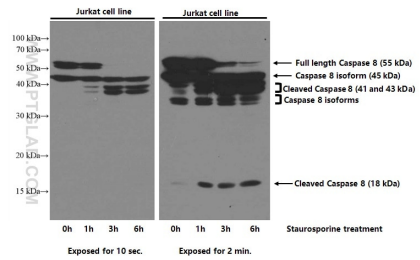
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

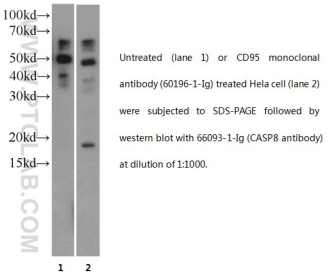
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

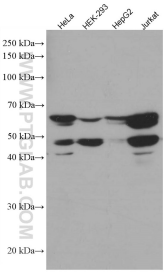
## Selected Validation Data



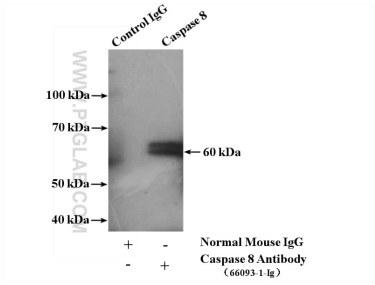

Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66093-1-Ig (Caspase 8 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



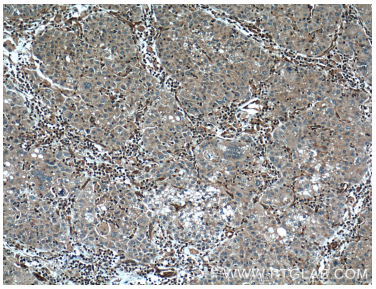

WB result of CASP8 with normal and apotosis Hela cell. P18 can be get in the apotosis cell. 60kd,50kd and 45kd bands are some isoforms of precursor CASP8.



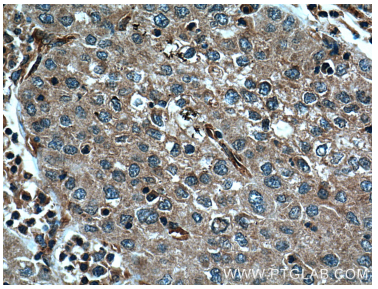

Various lysates were subjected to SDS PAGE followed by western blot with 66093-1-Ig (Caspase 8 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



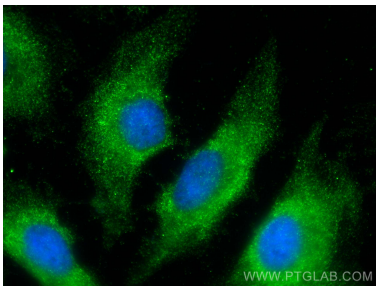

IP result of anti-Caspase 8/p43/p18 (IP:66093-1-Ig, 5ug; Detection:66093-1-Ig 1:500) with HepG2 cells lysate 2400ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66093-1-Ig (Caspase 8 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 liver cancer tissue slide using 66093-1-Ig (Caspase 8 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 Caspase 8/p43/p18 antibody (66093-1-Ig, Clone: 2B9H8 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).