For Research Use Only

Caspase 4 Monoclonal antibody

Catalog Number:67398-1-Ig 4 Publications

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Basic Information

Catalog Number:
67398-1-Ig

Size:
150ul , Concentration: 2300 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG29488

GenBank Accession Number:
BC017839

GeneID (NCBI):
837

UNIPROT ID:
P49662

Full Name:
caspase 4, apoptosis-related cysteine peptidase

Calculated MW:
377 aa, 43 kDa

Observed MW:
43-48 kDa

Purification Method:
Protein G purification

CloneNo.:
1D1E12

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:250-1:1000
IF-P 1:200-1:800
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human

Cited Species:
human

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 : SGC-7901 cells, A549 cells, HeLa cells, HepG2 cells, HL-60 cells

IHC : human liver cancer tissue,

IF-P : human liver cancer tissue,

IF/ICC : HeLa cells,

Background Information

Caspase 4 (CASP4), 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.Caspase 4 is able to cleave and activate its own precursor protein, as well as caspase 1 precursor. Overexpression of caspase 4 will induce cell apoptosis.

Notable Publications

Author	Pubmed ID	Journal	Application
Guiying He	36129672	Hum Cell	IHC
Lei Wu	39441118	ACS Chem Neurosci	WB
Yi Zhang	39136610	Mol Carcinog	WB

Storage

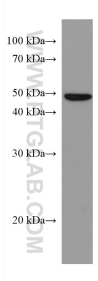
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

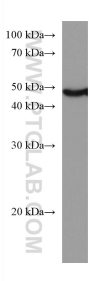
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

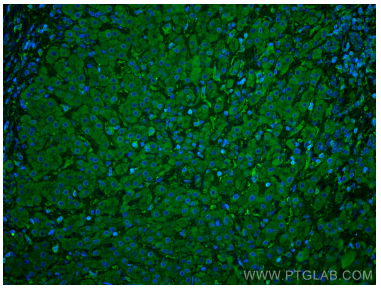
Selected Validation Data



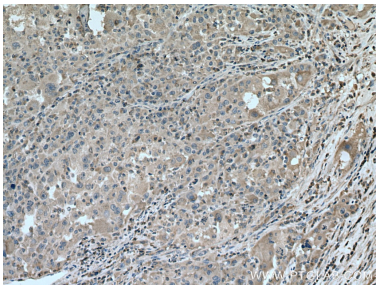
SGC-7901 cells were subjected to SDS PAGE followed by western blot with 67398-1-Ig (Caspase 4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



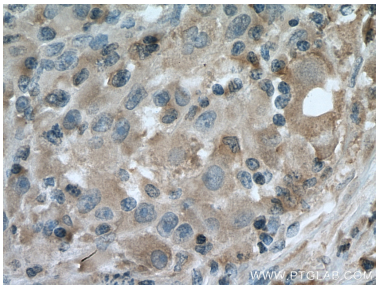
HL-60 cells were subjected to SDS PAGE followed by western blot with 67398-1-Ig (Caspase 4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



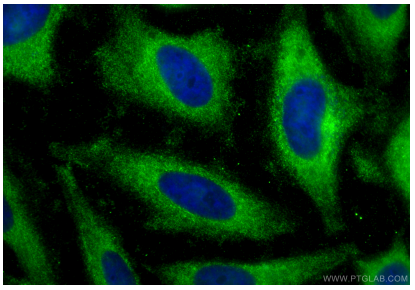
Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using Caspase 4 antibody (67398-1-Ig, Clone: 1D1E12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67398-1-Ig (Caspase 4 antibody) at dilution of 1:500 (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 67398-1-Ig (Caspase 4 antibody) at dilution of 1:500 (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 4 antibody (67398-1-Ig, Clone: 1D1E12) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).