

For Research Use Only

Caspase 10 Polyclonal antibody

Catalog Number: 14311-1-AP **4 Publications**



Basic Information

Catalog Number: 14311-1-AP	GenBank Accession Number: BC042844	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 200 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 843	Recommended Dilutions: WB: 1:500-1:1000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:20-1:200 IF/ICC: 1:20-1:200
Source: Rabbit	UNIPROT ID: Q92851	
Isotype: IgG	Full Name: caspase 10, apoptosis-related cysteine peptidase	
Immunogen Catalog Number: AG5511	Calculated MW: 59 kDa	
	Observed MW: 59 kDa, 47 kDa, 30-35 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA	Positive Controls: WB : Staurosporine treated Jurkat cells, Apoptosised HeLa cells IP : HeLa cells, IHC : human endometrial cancer tissue, IF/ICC : HepG2 cells,
Cited Applications: WB	
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

Background Information

CASP10(Caspase-10) is also named as MCH4 and belongs to the peptidase C14A family. It is recruited to the CD99 and p55 tumor necrosis factor receptor signaling complexes and promoting CD95 (APO1/Fas) apoptosis. It may also play a critical role in PTK7-knockdown-induced apoptosis, downstream of mitochondria(PMID:21103379). This protein can be Cleavage by granzyme B and autocatalytic activity generate two active subunits. Defects in CASP10 are the cause of autoimmune lymphoproliferative syndrome type 2A (ALPS2A)(PMID:16446975), familial non-Hodgkin lymphoma (NHL)(PMID:12010812) and gastric cancer (GASC)(PMID:11973654). The full length has a propeptide with 219 amino acid and 6 isoforms produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Bei Wang	34046026	Front Microbiol	WB
Ting Wang	33927626	Front Pharmacol	WB
Barbara Łasut-Szyszk	39068622	Apoptosis	WB

Storage

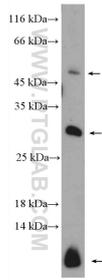
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

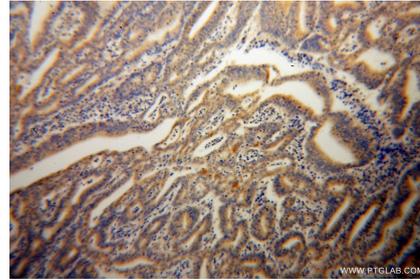
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

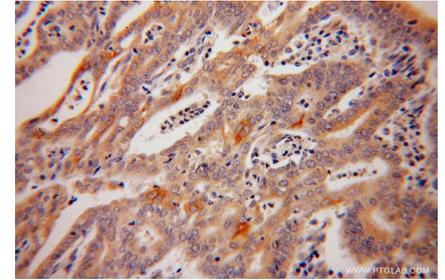
Selected Validation Data



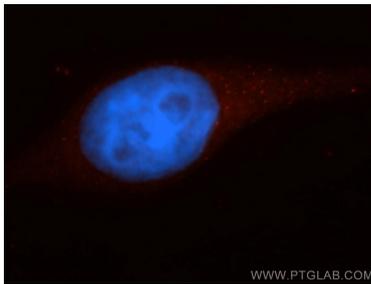
Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 14311-1-AP (Caspase 10 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



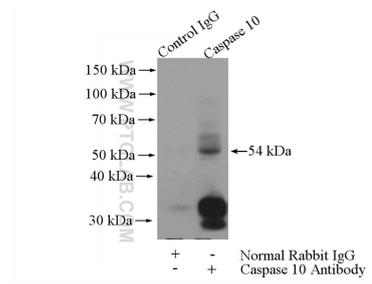
Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 14311-1-AP (Caspase 10 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 14311-1-AP (CASP10 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using Caspase 10 antibody 14311-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-Caspase 10 (IP:14311-1-AP, 4ug; Detection:14311-1-AP 1:300) with HeLa cells lysate 3200ug.



HeLa cells were subjected to SDS PAGE followed by western blot with 14311-1-AP (Caspase 10 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.