

For Research Use Only

# Caspase 10 Polyclonal antibody

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



## Basic Information

<b>Catalog Number:</b> 14311-1-AP	<b>GenBank Accession Number:</b> BC042844	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 550 ug/ml	<b>GeneID (NCBI):</b> 843	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q92851	<b>IHC 1:20-1:200</b> <b>IF/ICC 1:20-1:200</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> caspase 10, apoptosis-related cysteine peptidase	
<b>Immunogen Catalog Number:</b> AG5511	<b>Calculated MW:</b> 59 kDa	
	<b>Observed MW:</b> 59 kDa	

## Applications

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

**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-Szyska	39068622	Apoptosis	WB

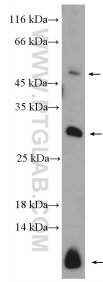
## Storage

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

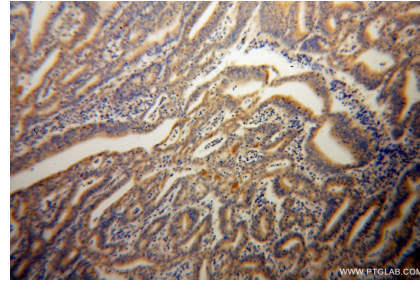
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

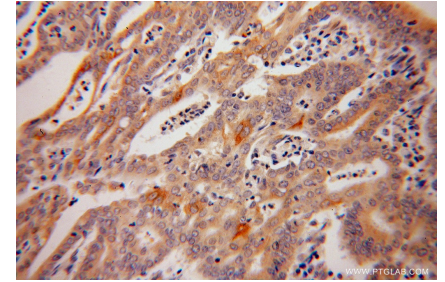
## Selected Validation Data



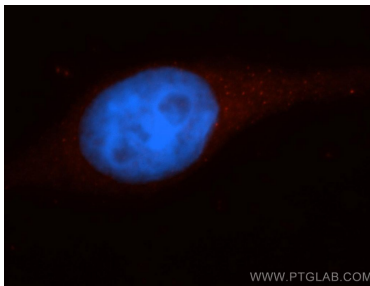
Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 14311-1-AP (Caspase 10 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



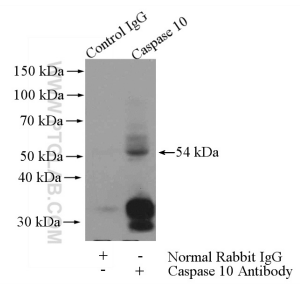
Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 14311-1-AP (Caspase 10 antibody) at dilution of 1:100 (under 10x lens).



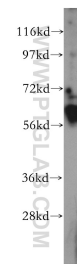
Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 14311-1-AP (CASP10 antibody) at dilution of 1:100 (under 40x lens).



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.