

For Research Use Only

Caspase 10 Polyclonal antibody

Catalog Number: 14311-1-AP

4 Publications



Basic Information

Catalog Number:

14311-1-AP

Size:

150ul, Concentration: 200 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5511

GenBank Accession Number:

BC042844

GeneID (NCBI):

843

UNIPROT ID:

Q92851

Full Name:

caspase 10, apoptosis-related cysteine peptidase

Calculated MW:

59 kDa

Observed MW:

59 kDa, 47 kDa, 30-35 kDa

Purification Method:

Antigen affinity purification

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

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

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

Positive Controls:

WB: Staurosporine treated Jurkat cells, Apoptosis HeLa cells

IP: HeLa cells,

IHC: human endometrial cancer tissue,

IF/ICC: HepG2 cells,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

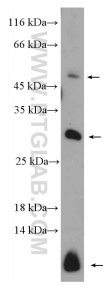
For technical support and original validation data for this product please contact:

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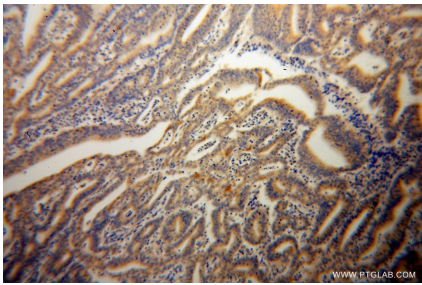
E: proteintech@ptglab.com
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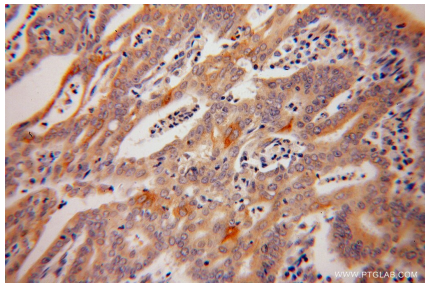
Selected Validation Data



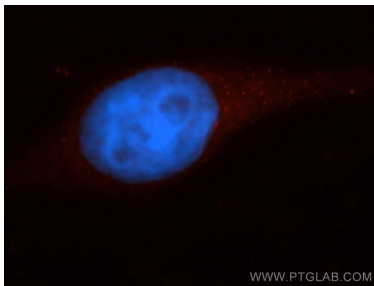
Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 14311-1-AP (Caspase 10 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



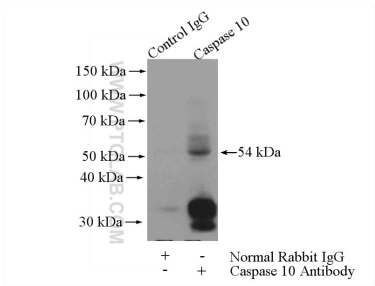
Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 14311-1-AP (Caspase 10 antibody) at dilution of 1:100 (under 10x lens).



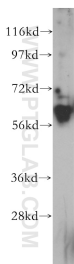
Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 14311-1-AP (CASP10 antibody) at dilution of 1:100 (under 40x lens).



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.