

For Research Use Only

Caspase 7 Polyclonal antibody

Catalog Number: 27155-1-AP

Featured Product

68 Publications



Basic Information

Catalog Number:

27155-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25904

GenBank Accession Number:

BC015799

GeneID (NCBI):

840

UNIPROT ID:

P55210

Full Name:

caspase 7, apoptosis-related cysteine peptidase

Calculated MW:

303 aa, 34 kDa

Observed MW:

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

IF-P: 1:50-1:500

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB: Jurkat cells, HEK-293 cells, LNCaP cells, PC-3 cells, MCF-7 cells, mouse liver tissue

IP: HEK-293 cells,

IF-P: mouse brain tissue,

IF/ICC: MCF-7 cells,

Background Information

Caspase 7(CASP7), like caspases 3 and 6, contains a short prodomain and, upon apoptotic induction, the 35 kDa proform is converted into a 32 kDa intermediate or preactive form which is further processed into two active subunits consisting of the p20 or large (18 kDa) subunit and the p10 or small (11 kDa) subunit and it is present in the brain, which is up-regulated and activated after traumatic injury(PMID:15953353). Caspase-7 is classified as a member of the subgroup of cysteine proteases most related to the *Caenorhabditis elegans* factor CED-3, which also includes caspase-3, -6, and -9(PMID:9426061). The protein is involved in the activation cascade of caspases responsible for apoptosis execution.

Notable Publications

Author	Pubmed ID	Journal	Application
Lei Zhang	34592228	Life Sci	WB
Lei Zhang	36116140	Phytother Res	WB
Rongrong Liao	36139227	Animals (Basel)	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

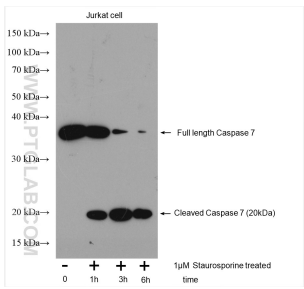
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

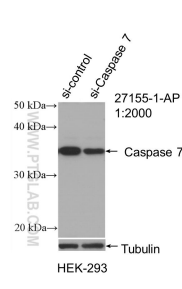
E: proteintech@ptglab.com
W: ptglab.com

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

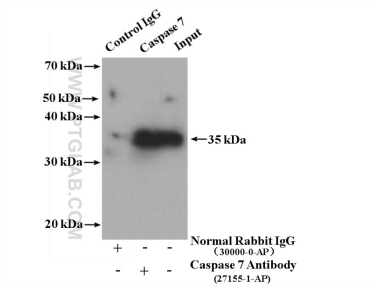
Selected Validation Data



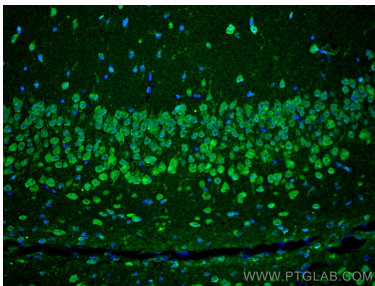
Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 27155-1-AP (Caspase 7 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



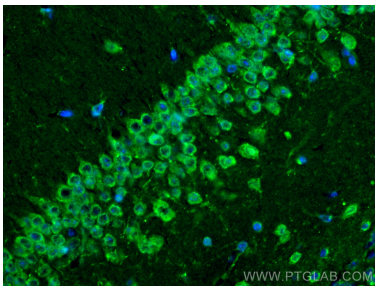
WB result of Caspase 7 antibody (27155-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 7 transfected HEK-293 cells.



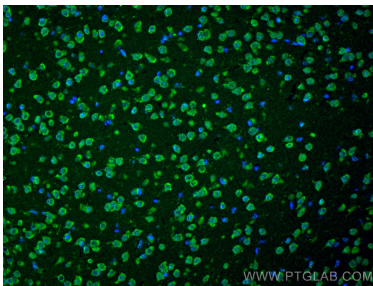
IP result of anti-Caspase 7 (IP:27155-1-AP, 4ug; Detection:27155-1-AP 1:1000) with HEK-293 cells lysate 2600 ug.



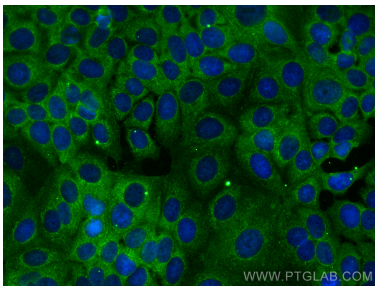
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using Caspase 7 antibody (27155-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using Caspase 7 antibody (27155-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).