

For Research Use Only

Caspase 7 Monoclonal antibody

Catalog Number: 67956-1-Ig **2 Publications**



Basic Information

Catalog Number: 67956-1-Ig	GenBank Accession Number: BC015799	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 840	CloneNo.: 3C9H4
Source: Mouse	UNIPROT ID: P55210	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000
Isotype: IgG2a	Full Name: caspase 7, apoptosis-related cysteine peptidase	
Immunogen Catalog Number: AG27601	Calculated MW: 303 aa, 34 kDa	
	Observed MW: 35 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : Jurkat cells, PC-12 cells, RAW 264.7 cells
Cited Applications: WB, IF	IHC : rat stomach tissue, human liver cancer tissue, mouse liver tissue, mouse stomach tissue, rat liver tissue
Species Specificity: Human, mouse, rat	
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

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
Shunze Jia	39460804	Cell Mol Life Sci	WB
Qi Sun	39277993	Aquat Toxicol	IF

Storage

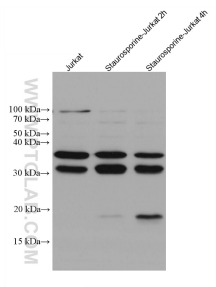
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

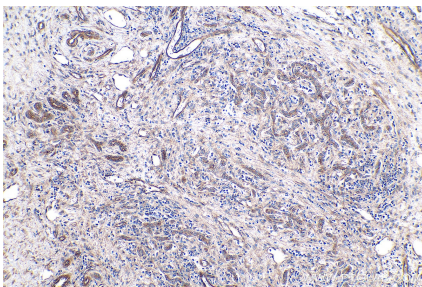
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

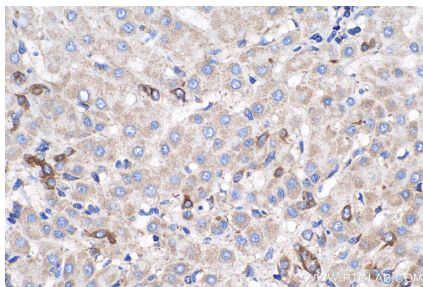
Selected Validation Data



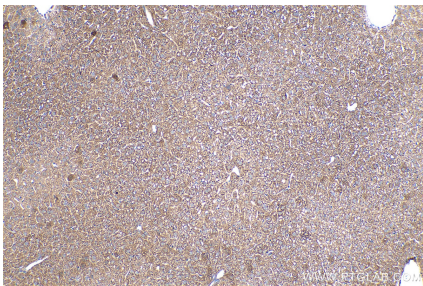
Jurkat cells were subjected to SDS PAGE followed by western blot with 67956-1-Ig (Caspase 7 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



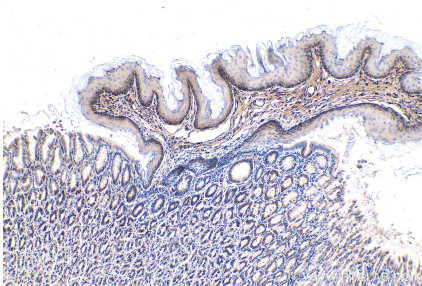
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67956-1-Ig (Caspase 7 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



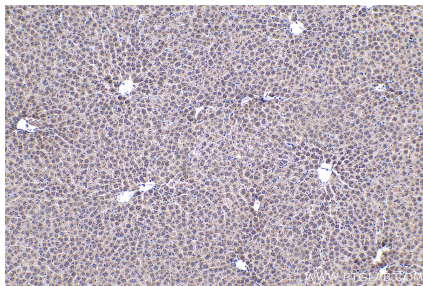
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67956-1-Ig (Caspase 7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



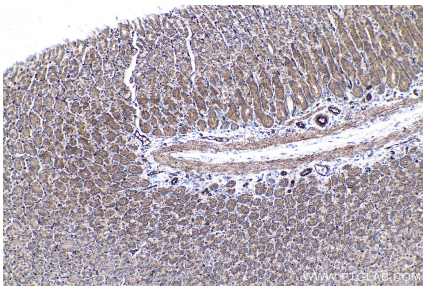
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 67956-1-Ig (Caspase 7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



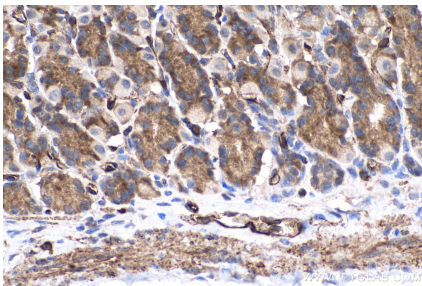
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 67956-1-Ig (Caspase 7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 67956-1-Ig (Caspase 7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat stomach tissue slide using 67956-1-Ig (Caspase 7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat stomach tissue slide using 67956-1-Ig (Caspase 7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).