

For Research Use Only

Caspase 6 Monoclonal antibody

Catalog Number: 67825-1-Ig

Featured Product

2 Publications



Basic Information

Catalog Number:

67825-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 665 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG20534

GenBank Accession Number:

BC000305

GeneID (NCBI):

839

UNIPROT ID:

P55212

Full Name:

caspase 6, apoptosis-related cysteine peptidase

Calculated MW:

33 kDa, 22 kDa

Observed MW:

33-35 kDa 22kDa, 18kDa

Purification Method:

Protein A purification

CloneNo.:

1H7F9

Recommended Dilutions:

WB 1:1000-1:4000

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

Human

Cited Species:

human

Positive Controls:

WB : Jurkat cells,

IF/ICC : Jurkat cells,

Background Information

Caspase-6 belongs to caspase family of cysteinyl-aspartate specific proteases. Precursor of CASP6 produces two subunits, large (18kDa) and small (16kDa) that dimerize. It cleaves poly(ADP-ribose) polymerase, as well as lamins and is involved in the activation cascade of caspases responsible for apoptosis execution. Researches showed that CASP6 could be an early instigator of neuronal dysfunction and regulates B cell activation and differentiation into plasma cells by modifying cell cycle entry. IRAK3 is an important target for CASP6. It can reveal five bands of 28, 32, 36, 49, and 64 kDa in human neurons and fetal brain in western blot, the 32 and 28 kDa bands represent procaspase-6 and pro-arm caspase-6. Procaspase-6 is more abundant than pro-arm caspase-6 in adult tissue, whereas pro-arm caspase-6 is more abundant than pro-caspase-6 in fetal brain and cultured neurons. The higher molecular mass bands at 49 and 64 kDa likely represent dimers of p28 and p32.(PMID:10438520). In rat testis, it can be detected two bands of 34 kDa and 12 kDa or 14 kDa(PMID:12538628).

Notable Publications

Author	Pubmed ID	Journal	Application
Barbara Łasut-Szyszk	39068622	Apoptosis	WB
Xiaoting Chen	38994036	Theranostics	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

*** 20ul sizes contain 0.1% BSA

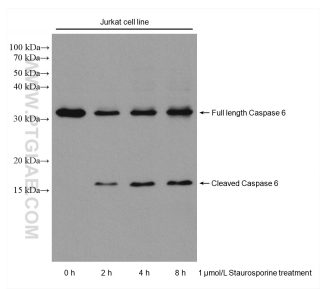
For technical support and original validation data for this product please contact:

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

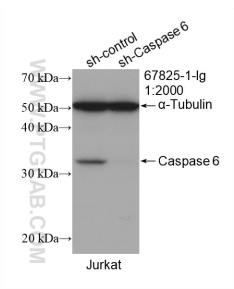
E: proteintech@ptglab.com
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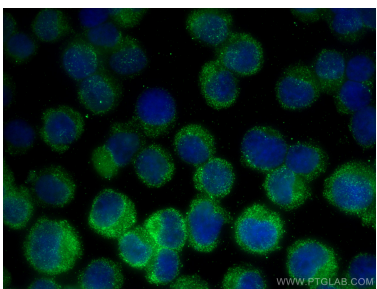
Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 67825-1-Ig (Caspase 6 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of Caspase 6 antibody (67825-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 6 transfected Jurkat cells.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using Caspase 6 antibody (67825-1-Ig, Clone: 1H7F9) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).