

For Research Use Only

# Caspase 6 Monoclonal antibody, PBS Only



Catalog Number: 67825-1-PBS

Featured Product

## Basic Information

Catalog Number:

67825-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

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

## Applications

Tested Applications:

WB, IF, Indirect ELISA

Species Specificity:

Human

## 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).

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

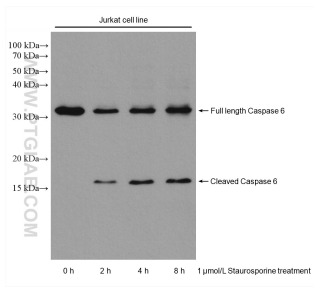
For technical support and original validation data for this product please contact:

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

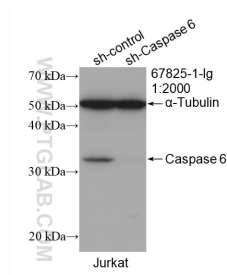
E: proteintech@ptglab.com  
W: ptglab.com

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

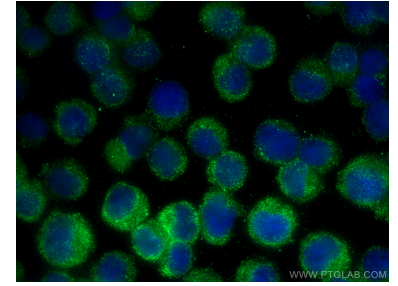
## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 67825-1-Ig (Caspase 6 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67825-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 67825-1-PBS in a different storage buffer formulation.



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 AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67825-1-PBS in a different storage buffer formulation.