For Research Use Only

Caspase 6/P18/P11 Polyclonal antibody

Catalog Number:10198-1-AP Featured Product 13 Publications

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Basic Information

Catalog Number:
10198-1-AP

Concentration:
450 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0257

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

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
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

Positive Controls:

WB : Staurosporine treated Jurkat cells, mouse brain tissue, Jurkat cells

IHC : human lung cancer tissue, human prostate cancer tissue, human skin tissue

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

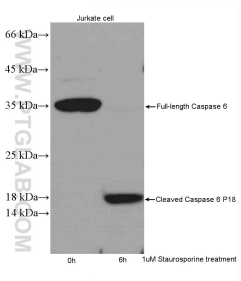
Author	Pubmed ID	Journal	Application
Han Liao	26415619	Chem Biol Interact	WB
Weixin Hou	34526765	Drug Des Devel Ther	WB
Danli Lu	36181629	Transl Stroke Res	WB

Storage

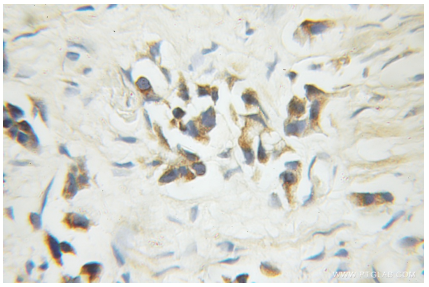
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

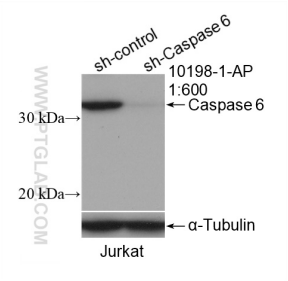
Selected Validation Data



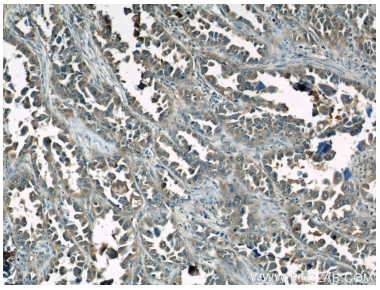
Staurosporine treat Jurkat cells were subjected to SDS PAGE followed by western blot with 10198-1-AP (Caspase 6/P18/P11 antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



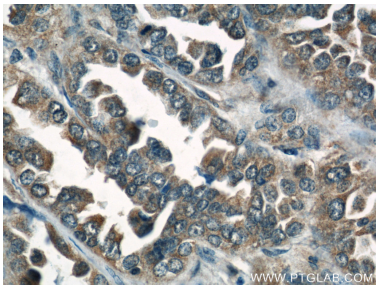
Immunohistochemical analysis of paraffin-embedded human prostate cancer using 10198-1-AP (Caspase 6/P18/P11 antibody) at dilution of 1:50 (under 10x lens).



WB result of Caspase 6/P18/P11 antibody (10198-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 6/p18/p11 transfected Jurkat cells.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 10198-1-AP (Caspase 6/P18/P11 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lung cancer using 10198-1-AP (Caspase 6/P18/P11 antibody) at dilution of 1:200 (under 40x lens).