

For Research Use Only

# Phospho-Caspase 9 (Thr125) Polyclonal antibody

Catalog Number: 28793-1-AP



## Basic Information

### Catalog Number:

28793-1-AP

### Size:

100ul , Concentration: 900 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

BC002452

### GeneID (NCBI):

842

### UNIPROT ID:

P55211

### Full Name:

caspase 9, apoptosis-related cysteine peptidase

### Calculated MW:

46 kDa

### Observed MW:

40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

Human

### Positive Controls:

WB : λ phosphatase treated Jurkat cells,

## Background Information

Caspase 9 also name as MCH6, APAF3, APAF-3, ICE-LAP6 and CASPASE-9c, is a member of the cysteine-aspartic acid protease (caspase) family. It's synthesized as a 46 kDa precursor protein which can be cleaved into a 35 kDa subunit and a 11 kDa subunit. Control of all caspases is tightly regulated by a series of phosphorylation events enacted by several different kinases. Caspase-9 is the most heavily phosphorylated of all caspases, with phosphorylation of at least 11 distinct residues in all three caspase-9 domains by nine kinases. It plays a central role in the mitochondrial or intrinsic apoptotic pathway that is engaged in response to many apoptotic stimuli. Once activated, caspase-9 cleaves and activates the effector caspases 3 and 7 to bring about apoptosis. It's reported that there is an increase in caspase 9 expression and activity in the hypoxic brain. Inhibition of Caspase 9 activity would render opportunity to treat neurological diseases such as stroke, neurodegenerative diseases or brain injury caused by hypoxia. (PMID: 19788417, PMID: 10529400, PMID: 9812896, PMID: 18840507, PMID: 29066624)

## 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

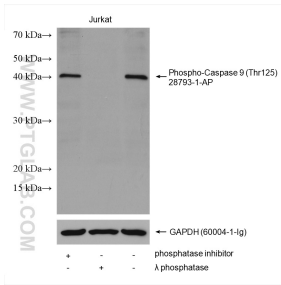
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Non-treated Jurkat, phosphatase inhibitor treated and  $\lambda$  phosphatase treated Jurkat cells were subjected to SDS PAGE followed by western blot with 28793-1-AP (Phospho-Caspase 9 (Thr125) antibody) at dilution of 1:4000 incubated at room temperature for 1 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.