

# Phospho-Caspase 9 (Thr125) Monoclonal antibody

Catalog Number: **68136-1-Ig**

## Basic Information

**Catalog Number:**

68136-1-Ig

**Size:**1000  $\mu$ g/ml**Source:**

Mouse

**Isotype:**

IgG1

**GenBank Accession Number:**

BC002452

**GeneID (NCBI):**

842

**UNIPROT ID:**

P55211

**Full Name:**caspase 9, apoptosis-related cysteine  
peptidase**Calculated MW:**

46 kDa

**Observed MW:**

36 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1B5E11

**Recommended Dilutions:**

WB 1:5000-1:50000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

Human, rat

**Positive Controls:**WB : HeLa cells, Calyculin A treated Jurkat cells,  
Calyculin A treated HSC-T6 cells, Calyculin A treated  
HeLa 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.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

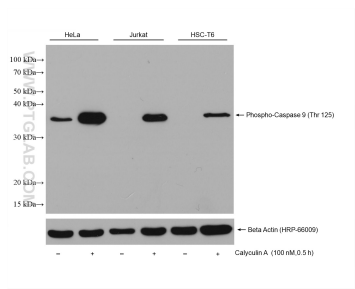
For technical support and original validation data for this product please contact:

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# Selected Validation Data



Non-treated and Calyculin A treated cells were subjected to SDS PAGE followed by western blot with 68136-1-Ig (Phospho-Caspase 9 (Thr125) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin antibody as loading control.