

For Research Use Only

# CoraLite®594-conjugated Phospho-Caspase 9 (Ser196) Recombinant antibody



Catalog Number: **CL594-80346**

## Basic Information

Catalog Number: CL594-80346	GenBank Accession Number: BC002452	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 842	CloneNo.: 3P16
Source: Rabbit	UNIPROT ID: P55211	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Isotype: IgG	Full Name: caspase 9, apoptosis-related cysteine peptidase	
	Calculated MW: 46 kDa	
	Observed MW: 46 kDa, 35 kDa	

## Applications

Tested Applications:

FC (Intra)

Species Specificity:

Human, mouse

## 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 46kDa precursor protein which can be cleaved into a 35kDa subunit and a 11kDa subunit. The phosphorylated type can be detected at 55kDa and 35kDa. 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 can be phosphorylated by PKB/AKT1 at Ser196, this modification will downregulate its activity and decrease apoptosis. Akt phosphorylation site found in human caspase 9 is absent in mouse caspase 9. 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)

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

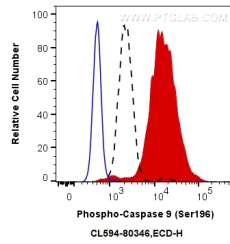
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



1X10<sup>6</sup> HeLa cells untreated (dashed lines) or Calyculin A treated HeLa cells were intracellularly stained with 0.25 ug CoraLite® 594 Anti-Human Phospho-Caspase 9 (Ser196) (CL594-80346, Clone:3P16) (red), or 0.25 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with 90% MeOH.