

For Research Use Only

# CoraLite®555-conjugated Phospho-Caspase 9 (Ser196) Recombinant antibody



Catalog Number:CL555-80346

## Basic Information

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| <b>Catalog Number:</b><br>CL555-80346                          | <b>GenBank Accession Number:</b><br>BC002452                         | <b>Purification Method:</b><br>Protein A purification              |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>842   | <b>CloneNo.:</b><br>3P16   |
| <b>Source:</b><br>Rabbit                                       | <b>Full Name:</b><br>caspase 9, apoptosis-related cysteine peptidase | <b>Excitation/Emission maximum wavelengths:</b><br>557 nm / 570 nm |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>46 kDa                                      |  |
|  | <b>Observed MW:</b><br>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

\*\*\* 20ul sizes contain 0.1% BSA

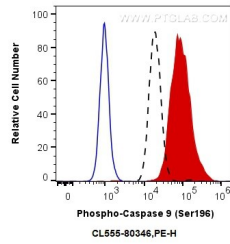
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1X10<sup>6</sup> HeLa cells untreated (dashed lines) or Calyculin A treated HeLa cells were intracellularly stained with 0.25 ug CoraLite®555 Anti-Human Phospho-Caspase 9 (Ser196) (CL555-80346, Clone:3P16) (red), or 0.25 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with 90% MeOH.