

For Research Use Only

CoraLite® Plus 488-conjugated Phospho-Caspase 9 (Ser196) Recombinant antibody

Catalog Number: CL488-80346



Basic Information

Catalog Number:

CL488-80346

Size:

100ul, Concentration: 1000 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:

46 kDa, 35 kDa

Purification Method:

Protein A purification

CloneNo.:

3P16

Recommended Dilutions:

FC (Intra): 0.13 ug per 10⁶ cells in a
100 µl suspension

Excitation/Emission maxima
wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human, mouse

Positive Controls:

FC (Intra): Calyculin A treated HEK-293 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 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, pH7.3

Aliquoting is unnecessary for -20°C storage

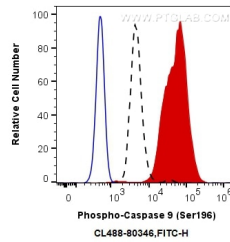
For technical support and original validation data for this product please contact:

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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



1×10^6 HEK-293 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.13 μg CoraLite® Plus 488 Anti-Human Phospho-Caspase 9 (Ser196) (CL488-80346, Clone:3P16), or 0.13 μg Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 80% MeOH.