

For Research Use Only

CoraLite® Plus 647-conjugated Phospho-Caspase 9 (Ser196) Recombinant antibody

Catalog Number: CL647-80346



Basic Information

Catalog Number: CL647-80346	GenBank Accession Number: BC002452	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 842	CloneNo.: 3P16
Source: Rabbit	UNIPROT ID: P55211	Recommended Dilutions: FC (Intra): 0.13 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: caspase 9, apoptosis-related cysteine peptidase	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
	Calculated MW: 46 kDa	
	Observed MW: 46 kDa, 35 kDa	

Applications

Tested Applications: FC (Intra)	Positive Controls: FC (Intra) : Calyculin A treated HEK-293 cells,
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)

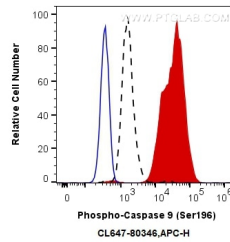
Storage

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, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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 μ g CoraLite® Plus 647 Anti-Human Phospho-Caspase 9 (Ser196) (CL647-80346, Clone:3P16), or 0.13 μ g Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 80% MeOH.