

For Research Use Only



Phospho-Caspase 9 (Thr125) Monoclonal antibody, PBS Only

Catalog Number: 68136-1-PBS

Basic Information

Catalog Number:	68136-1-PBS	GenBank Accession Number:	BC002452	Purification Method:	Protein A purification
Size:	1 mg/ml	GeneID (NCBI):	842	CloneNo.:	1B5E11
Source:	Mouse	UNIPROT ID:	P55211		
Isotype:	IgG1	Full Name:	caspase 9, apoptosis-related cysteine peptidase		
		Calculated MW:	46 kDa		
		Observed MW:	36 kDa		

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
Human, rat

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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

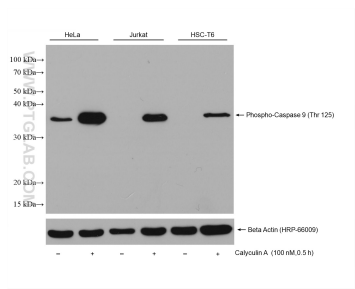
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



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. This data was developed using the same antibody clone with 68136-1-PBS in a different storage buffer formulation.