

For Research Use Only

CoraLite® Plus 488-conjugated Phospho-PDPK1 (Ser241) Recombinant monoclonal antibody

Catalog Number: CL488-85223-3



Basic Information

Catalog Number: CL488-85223-3	GenBank Accession Number: BC012103	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 5170	CloneNo.: 250623A11
Source: Rabbit	UNIPROT ID: O15530	Recommended Dilutions: FC (Intra): 0.13 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: 3-phosphoinositide dependent protein kinase-1	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
	Calculated MW: 556 aa, 63 kDa	
	Observed MW: 58-68 kDa	

Applications

Tested Applications: FC (Intra)	Positive Controls: FC (Intra) : λ phosphatase treated NIH/3T3 cells,
Species Specificity: human, mouse	

Background Information

3-Phosphoinositide dependent protein kinase-1 (PDK1 or PDPK1) is a serine-threonine kinase belonging to AGC kinase family. PDK1 plays a critical role in establishing ACD (Asymmetric cell division) in the epithelium (PMID: 27184845). The kinase activity of PDK1 depends on phosphatidyl inositol 3-kinase (PI3K), a key intermediate in signaling pathways including those from growth factor receptors and adhesion molecules. Substrates of PDK1, including AKT and the protein kinase C (PKC) isozymes, regulate a number of essential cell functions (PMID: 20027184). PDPK1 has 5 isoforms produced by alternative splicing of 48-63 kDa and is detected as 60-63 kDa.

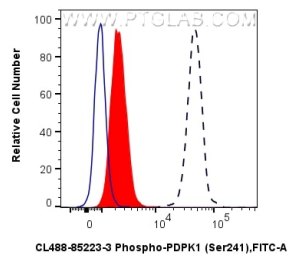
Storage

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)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



1X10⁶ NIH/3T3 cells untreated (dashed lines) or treated with λ phosphatase which intracellularly stained with 0.13 μ g Coralite® Plus 488 Phospho-Pdpk1 (Ser241) Recombinant Antibody (CL488-85223-3, Clone:250623A11)(red), or 0.13 μ g Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).