

For Research Use Only



CoraLite® Plus 647-conjugated Phospho-IkB Beta (Thr19/Ser23) Recombinant monoclonal antibody

Catalog Number: CL647-84403

Basic Information

Catalog Number:	CL647-84403	GenBank Accession Number:	BC015528	Purification Method:	Protein A purification
Source:	Rabbit	GenID (NCBI):	4793	CloneNo.:	241061B2
Isotype:	IgG	UNIPROT ID:	Q15653	Recommended Dilutions:	FC (Intra): 0.13 ug per 10 ⁶ cells in a 100 µl suspension
		Full Name:	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta	Excitation/Emission maxima wavelengths:	654 nm / 674 nm
		Calculated MW:	356 aa, 38 kDa		
		Observed MW:	50 kDa		

Applications

Tested Applications:	Positive Controls:
FC (Intra)	FC (Intra): TNF alpha and Calyculin A treated HT-29 cells,
Species Specificity:	

Background Information

IkB Beta is also named as NF-kappa-B inhibitor beta (NFKB1B) and TRIP-9. IKBB is one of the major isoforms of the NFKB inhibitor which preferentially interacts with c-Rel or p65 NF-kB dimers (PMID: 26227166). IKBB was reported to be associated with tumor growth inhibition and metastasis in lung cancer (PMID: 11402320). IKBB also inhibits cancer cell regulation through inactivation of the NFkB pathway (PMID: 18950638). Exposure of cells to a variety of extracellular stimuli leads to the rapid phosphorylation, ubiquitination, and ultimately proteolytic degradation of IkB, which frees NF-kB to translocate to the nucleus where it regulates gene transcription (PMID: 10837071). The antibody is phosphorylated at Thr19 and Ser23.

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



1X10⁶ HT-29 cells untreated (dashed lines) or treated with TNF alpha and Calyculin A which intracellularly stained with 0.13 ug Coralite® Plus 647 Phospho-Ikb Beta (Thr19/Ser23) Recombinant Antibody (CL647-84403, Clone:241061B2)(red), or 0.13 ug Coralite® Plus 647 Rabbit IgG Isotype Control RecAb (CL647-98136, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).

