

For Research Use Only



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

Catalog Number:**CL647-84403**

## Basic Information

<b>Catalog Number:</b>	BC015528	<b>GenBank Accession Number:</b>	<b>Purification Method:</b>
<b>CL647-84403</b>		<b>BC015528</b>	<b>Protein A purification</b>
<b>Size:</b>	<b>GenelD (NCBI):</b>	<b>CloneNo.:</b>	<b>241061B2</b>
100ul, Concentration: 1000 ug/ml by Nanodrop;	4793		
<b>Source:</b>	<b>UNIPROT ID:</b>	<b>Recommended Dilutions:</b>	
Rabbit	Q15653	FC (Intra): 0.13 ug per 10 <sup>6</sup> cells in a 100 $\mu$ l suspension	
<b>Isotype:</b>	<b>Full Name:</b>	<b>Excitation/Emission maxima wavelengths:</b>	
IgG	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta	654 nm / 674 nm	
	<b>Calculated MW:</b>		
	356 aa, 38 kDa		
	<b>Observed MW:</b>		
	50 kDa		

## Applications

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

## 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:  
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



1X10<sup>6</sup> 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

