

For Research Use Only

# CoraLite®594-conjugated Phospho-IkB Beta (Thr19/Ser23) Recombinant monoclonal antibody

Catalog Number: CL594-84403



## Basic Information

<b>Catalog Number:</b> CL594-84403	<b>GenBank Accession Number:</b> BC015528	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4793	<b>CloneNo.:</b> 241061B2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q15653	<b>Recommended Dilutions:</b> FC (Intra): 0.13 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG	<b>Full Name:</b> nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
	<b>Calculated MW:</b> 356 aa, 38 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

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

## Background Information

IkB Beta is also named as NF-kappa-B inhibitor beta (NFKBIB) 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.

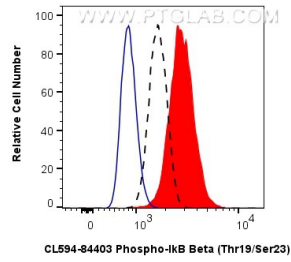
## Storage

**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)  
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## 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® 594 Phospho-Iκb Beta (Thr19/Ser23) Recombinant Antibody (CL594-84403, Clone:241061B2)(red), or 0.13 ug Coralite® 594 Rabbit IgG Isotype Control RecAb (CL594-98136, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).