

# 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>Source:</b>	Rabbit	<b>GenID (NCBI):</b>	4793	<b>CloneNo.:</b>	241061B2
<b>Isotype:</b>	IgG	<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>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	

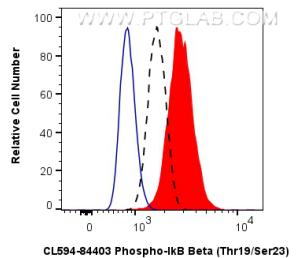
## Background Information

IkB Beta is also named as NF-kappa-B inhibitor beta (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**

## 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-IkB 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).