

CoraLite® Plus 647-conjugated Phospho-NF- κ B p65 (Ser536) Recombinant monoclonal antibody

Catalog Number: **CL647-80379-2**

Basic Information

Catalog Number:

CL647-80379-2

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC011603

GeneID (NCBI):

5970

UNIPROT ID:

Q04206

Full Name:v-rel reticuloendotheliosis viral
oncogene homolog A (avian)**Calculated MW:**

65 kDa

Observed MW:

75 kDa

Purification Method:

Protein A purification

CloneNo.:

240777D9

Recommended Dilutions:FC (Intra): 0.2 ug per 10⁶ cells in a
100 μ l suspension**Excitation/Emission maxima
wavelengths:**

654 nm / 674 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human, mouse

Positive Controls:

FC (Intra) : Calyculin A 100nM 0.5h NIH/3T3 cells,

Background Information

Nuclear factor κ B (NF- κ B) is a collective term for a small family of dimeric transcription factors [comprising p65 (RelA) and RelB, c-Rel, p50/p105 (NF- κ B1), and p52/p100 (NF- κ B2)]. All NF- κ B proteins share a Rel homology domain (RHD), which is responsible for DNA binding and dimerization. Only p65, RelB, and c-Rel contain potent transactivation domains within sequences from the C-terminal to the RHD. Exterior signals lead to the phosphorylation and degradation of the inhibitory complex I κ B, which is modulated by the I κ B kinase (IKK), and its degradation allows for the release of the typical NF- κ B heterodimer, p65/p50, to translocate into the nucleus. NF- κ B binds to its cognate DNA elements and can transcriptionally activate different target genes among which 200-500 genes have been implicated in cell survival/apoptosis, cell growth, immune response, and inflammation.

Storage

Storage:

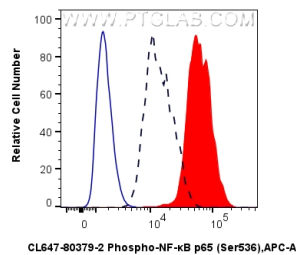
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



1X10⁶ NIH/3T3 cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.2 ug Coralite® Plus 647 Phospho-NF- κ B p65 (Ser536) Recombinant Antibody (CL647-80379-2, Clone:240777D9)(red), or 0.2 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).