For Research Use Only

NFKB2,p100 Recombinant monoclonal antibody

Catalog Number:84022-5-RR Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
84022-5-RR

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0662

GenBank Accession Number:
BC002844

GeneID (NCBI):
4791

ENSEMBL Gene ID:
ENSG00000077150

UNIPROT ID:
Q00653

Full Name:
nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)

Calculated MW:
97 kDa

Observed MW:
100-110 kDa

Purification Method:
Protein A purfication

CloneNo.:
241126C9

Recommended Dilutions:
WB: 1:5000-1:50000
FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, FC (Intra), ELISA

Species Specificity:
human

Positive Controls:

WB : HeLa cells, HAP1 cells, K-562 cells, Jurkat cells, SKOV-3 cells, HL-60 cells

FC (Intra) : A431 cells, HeLa cells

Background Information

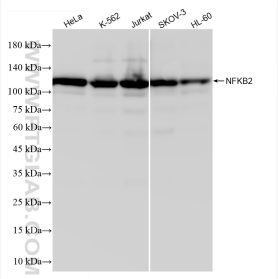
NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. NFKB2 appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins by p100 and generation of p52 by a cotranslational processing. The proteasome-mediated process ensures the production of both p52 and p100 and preserves their independent function. P52 binds to the kappa-B consensus sequence 5'-GGRNNYYCC-3', located in the enhancer region of genes involved in immune response and acute phase reactions. P52 and p100 are respectively the minor and major form; the processing of p100 being relatively poor. Isoform p49 is a subunit of the NF-kappa-B protein complex, which stimulates the HIV enhancer in synergy with p65. This antibody can bind p100 isoform of NFKB2 spefically, but not p52 isoform.

Storage

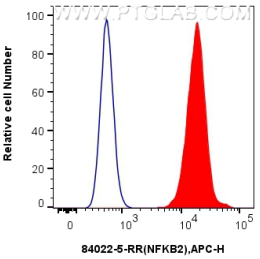
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

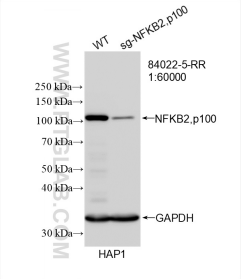
Selected Validation Data



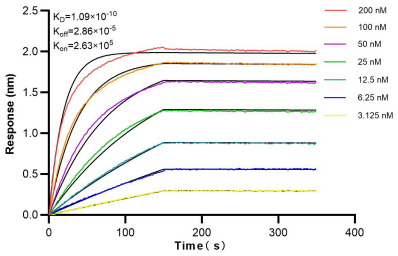
Various lysates were subjected to SDS PAGE followed by western blot with 84022-5-RR (NFKB2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10^6 A431 cells were intracellularly stained with 0.25 ug NFKB2,p100 Recombinant antibody (84022-5-RR, Clone:241126C9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



WB result of NFKB2,p100 antibody (84022-5-RR; 1:60000; room temperature for 1.5 hours) with wild-type and sg-NFKB2 transfected HAP1 cells.



Biolayer interferometry (BLI) kinetic assays of 84022-5-RR against Human NFKB2,p100 were performed. The affinity constant is 0.109 nM.