For Research Use Only

NF-κB p65 Monoclonal antibody

Catalog Number:66535-1-Ig Featured Product 268 Publications

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Basic Information

Catalog Number:
66535-1-Ig

Size:
150ul , Concentration: 2000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG1199

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:
65 kDa

Purification Method:
Protein A purification

CloneNo.:
1B12D11

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:150-1:600

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF, CoIP, ChIP, RIP

Species Specificity:
Human

Cited Species:
human, pig, chicken, bovine, hamster

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HEK-293 cells, MOLT-4 cells, Jurkat cells, Raji cells

IHC : human breast cancer tissue,

Background Information

Nuclear factor k B (NF-kB) is a sequence-specific DNA-binding protein complex which regulates the expression of viral genomes, including the human immunodeficiency virus, and a variety of cellular genes, particularly those involved in immune and inflammatory responses. The members of the NF-Kb family in mammalian cells include the proto-oncogene c-Rel,p50/p105 (NFkB1), p65 (RelA), p52/p100 (NFkB2), and RelB. All of these proteins share a conserved 300-amino acid region known as the Rel homology domain which is responsible for DNA binding, dimerization, and nuclear translocation of NF-Kb. The p65 subunit is a major component of NF-Kb complexes and is responsible for trans-activation. NF-kappa-B heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF-kappa-B p65-p65 complex appears to be involved in invasin-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NF-kappa-B the cytoplasm is exerted primarily through the interaction with p65. p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappa-B complex. It associates with chromatin at the NF-kappa-B promoter region via association with DDX1.

Notable Publications

Author	Pubmed ID	Journal	Application
Wenbin Pei	34650433	Front Pharmacol	WB,IF
Jingying Liu	34646128	Front Aging Neurosci	WB
Zhuo Wei	31561855	Biochem Biophys Res Commun	WB

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

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
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E: proteintech@ptglab.com
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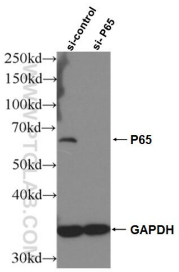
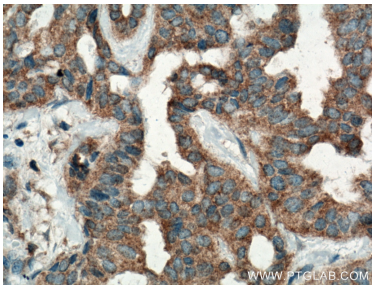
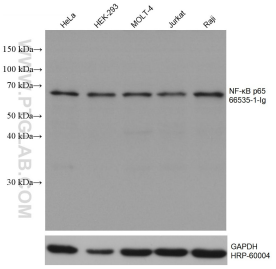
Selected Validation Data



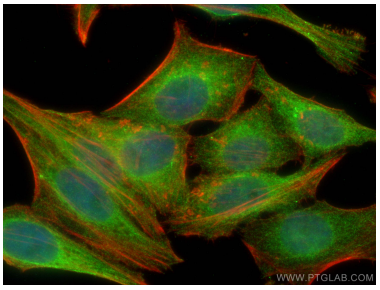
WB result of p65; RELA antibody (66535-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p65; RELA transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66535-1-Ig (p65; RELA antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66535-1-Ig (NF-κB p65 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NF-κB p65 antibody (66535-1-Ig, Clone: 1B12D11) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).