

For Research Use Only

NFKB2,p100 Polyclonal antibody

Catalog Number:10409-2-AP

Featured Product

21 Publications



Basic Information

Catalog Number:

10409-2-AP

Size:

150ul , Concentration: 700 ug/ml by Nanodrop;

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:12000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB : HeLa cells, HAP1 cells, K-562 cells, NIH/3T3 cells, RAW 264.7 cells

IP : K-562 cells,

IHC : human pancreas cancer tissue, human liver cancer tissue

IF/ICC : U2OS cells,

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

Background Information

NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processes 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'-GGRNYYCC-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 specifically, but not p52 isoform.

Notable Publications

Author	Pubmed ID	Journal	Application
Xufeng Tao	25083618	Transplantation	WB
Xinhua Xiao	28906487	Cell Death Dis	WB
Xue Guan	31751911	Mol Ther Nucleic Acids	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

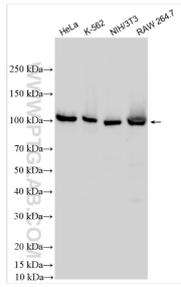
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

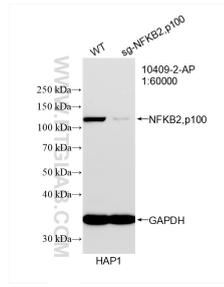
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

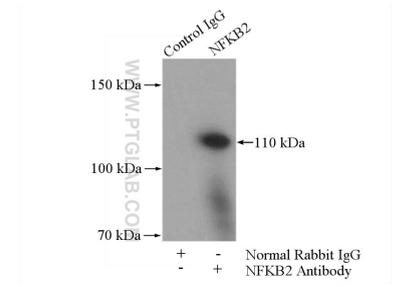
Selected Validation Data



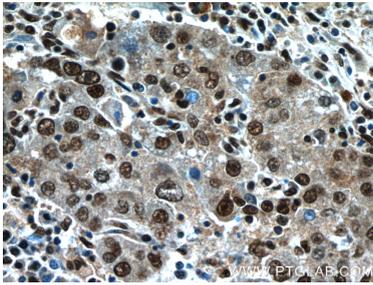
Various lysates were subjected to SDS PAGE followed by western blot with 10409-2-AP (NFKB2,p100 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



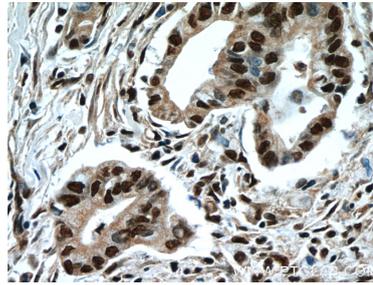
WB result of NFKB2,p100 antibody (10409-2-AP; 1:60000; room temperature for 1.5 hours) with wild-type and sg-NFKB2,p100 transfected HAP1 cells.



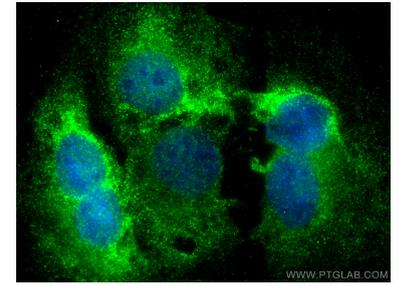
IP result of anti-NFKB2,p100 (IP:10409-2-AP, 4ug; Detection:10409-2-AP 1:600) with K-562 cells lysate 1200ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10409-2-AP (NFKB2,p100 Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 10409-2-AP (NFKB2,p100 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using NFKB2 antibody (10409-2-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).