For Research Use Only

IKBKB Polyclonal antibody

Catalog Number:15649-1-AP Featured Product 107 Publications

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Basic Information

Catalog Number:
15649-1-AP

Size:
150ul , Concentration: 400 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG8191

GenBank Accession Number:
BC006231

GeneID (NCBI):
3551

UNIPROT ID:
O14920

Full Name:
inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta

Calculated MW:
756aa,81 kDa; 256aa,29 kDa

Observed MW:
80 kDa, 86 kDa, 87 and 29 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:300-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, bovine

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 : Jurkat cells, K-562 cells, HepG2 cells

IP : Jurkat cells,

IHC : human liver cancer tissue, human prostate cancer tissue

Background Information

IKBKB, also named as IKKB, IKK2, NFKBIKB and IKK-B, belongs to the protein kinase superfamily, Ser/Thr protein kinase family and I-kappa-B kinase subfamily. IKBKB is a Serine kinase that plays an essential role in the NF-kappa-B signaling pathway. It acts as part of the canonical IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B on 2 critical serine residues. In addition to the NF-kappa-B inhibitors, IKBKB phosphorylates several other components of the signaling pathway including NEMO/IKBKG, NF-kappa-B subunits RELA and NFKB1, as well as IKK-related kinases TBK1 and IKBKE. It also phosphorylates other substrates including NCOA3, BCL10 and IRS1. Within the nucleus, IKBKB acts as an adapter protein for NFKBIA degradation in UV-induced NF-kappa-B activation. This antibody can identify 4 isoform of IKBKB with the molecular weight of 80, 86, 87 and 29 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Xin Shen	36184549	Int Heart J	WB
Yanliang Wu	34601083	J Ethnopharmacol	WB
Wenbin Pei	34650433	Front Pharmacol	WB

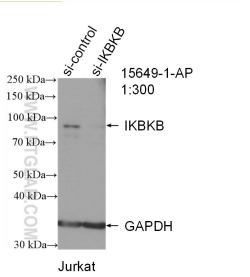
Storage

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

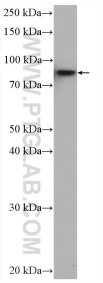
*** 20ul sizes contain 0.1% BSA

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

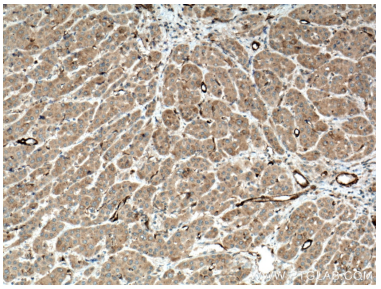
Selected Validation Data



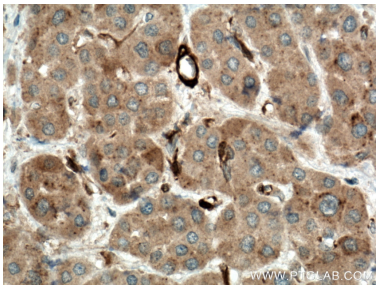
WB result of IKBKB antibody (15649-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-IKBKB transfected Jurkat cells.



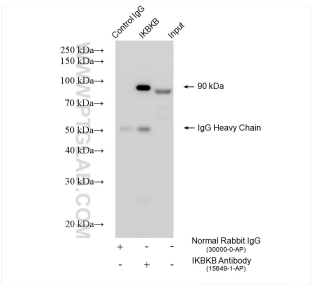
Jurkat cells were subjected to SDS PAGE followed by western blot with 15649-1-AP (IKBKB antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15649-1-AP (IKBKB antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15649-1-AP (IKBKB antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-IKBKB (IP:15649-1-AP, 4ug; Detection:15649-1-AP 1:3000) with Jurkat cells lysate 1400 ug.