

For Research Use Only

IKBKB Polyclonal ANTIBODY



Catalog Number: 15649-1-AP

Featured Product

29 Publications

Basic Information

Catalog Number:

15649-1-AP

Size:

150UL, Concentration: 133 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8191

GenBank Accession Number:

BC006231

GeneID (NCBI):

3551

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

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB: Jurkat cells, HepG2 cells, K-562 cells

IHC: human liver cancer tissue, human prostate cancer tissue

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

IKBKB, also named as IKKB, IKK2, NFKB1KB 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/IKBK, 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
Yan Zhou	30245266	Mol Immunol	WB
Yi Long Li	28875433	Invest New Drugs	WB
Zheng Zhenhua Z	21810613	J Immunol	WB, IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

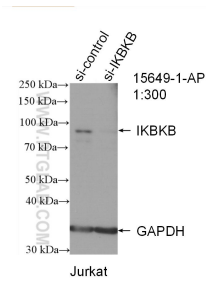
For technical support and original validation data for this product please contact:

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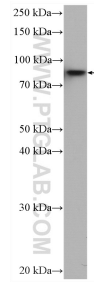
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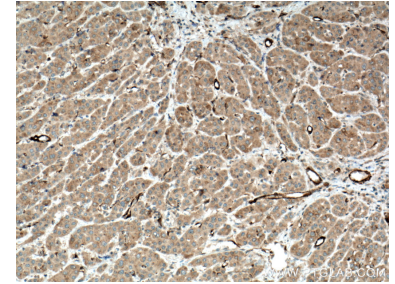
Selected Validation Data



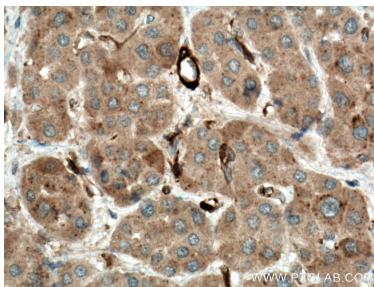
WB result of IKKBK antibody (15649-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-IKKBK transfected Jurkat cells.



Jurkat cells were subjected to SDS PAGE followed by western blot with 15649-1-AP (IKKBK 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 (IKKBK 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 (IKKBK antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).