

AbboMax, Inc

Innovation at Work

Rabbit anti Phospho-IkBa (pSer³²/ pSer³⁶)

Alternate Names: I kappa B alpha; IkBa, IkappaBalpha; MAD3.

Order Information

Description: Rabbit anti IkBa(pS32/S36)
Phosphospecific
Catalogue#: 602-220
Lot#: See the label
Size: 100 ug/200 ul
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC
Reactivity: Hu, Rt, Ms, Bv, Ck, Dg

ANTIGEN PREPARATION

A synthetic peptide corresponding to the epitope -DSGLDSM- at dual phosphorylation sites serine 32 and serine 36 of human IkBalpha protein. This sequence is identical within human, mouse, rat, dog and bovine.

BACKGROUND

There are six members in the IκB family, in which IκBa is first protein induced by NF-κB activation. NF-κB is silenced in the cytoplasm by an inhibitory protein, IκB. Synthesis of IκBa is autoregulated. IκB proteins are phosphorylated by IκB kinase complex consisting of at least three proteins, IKK1/a, IKK2/b, and IKK3/g. External stimuli such as TNF or other cytokines initiates a signal transduction cascade that leads to the activation of IκB-kinase complex that specifically phosphorylates IκBa on Serine-32 and Serine-36. Phosphorylation of these sites leads to ubiquitination of IκBa and subsequent degradation by the 26 S proteasome.

PURIFICATION

The Rabbit IgG is purified by Site-specific Epitope Affinity Purification.

SPECIFICITY

This antibody recognizes ~42 kDa of human IκBa at dual phosphorylation sites of Ser32/Ser36. It does not recognize non-phosphorylated peptides. This antibody also reacts with rat and mouse. The other species are not tested.

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

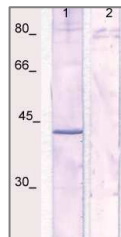
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	Not tested
Flow cytometry	Not tested

MOLECULAR WEIGHT:	~42 kDa
POSITIVE CONTROL:	TNFα-treated Jurkat cells
CELLULAR LOCATION:	N/A

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



WB: The whole cell lysate derived from TNFα-treated Jurkat cells was immunoblotted by Rabbit anti-phospho-IκBa(pS32/S36) (Cat#602-220) at 1:500. An immune-reactive band is observed around ~42kDa (lane 1). This band is blocked by pre-incubation of immunizing peptide (lane 2)

REFERENCES:

Carole Kretz-Remy, et al. Inhibition of IκB-α Phosphorylation and Degradation and Subsequent NF-κB Activation by Glutathione Peroxidase Overexpression. (1996) The Journal of Cell Biology, 133(5), 1083-1093.

FOR RESEARCH USE ONLY.

AbboMax, Inc 1161 Ringwood Ct. Suite 100, San Jose, California 95131, USA
1 408-321-9898 (Tel). 1 408-321-9896 (Fax). 1-866-628-9898 www.abbomax.com info@abbomax.com