
Anti-I kappa B alpha (IKB-a) Purified


Catalog Number: 14-6763

Also Known As: I Kappa Beta alpha, IKBa, IKB alpha

RUO: For Research Use Only

Product Information


Contents: Anti-I kappa B alpha (IKB-a) Purified

 Catalog Number: 14-6763


Clone: Polyclonal


Host/Isotype: Rabbit IgG

Formulation: 200 µg/ml rabbit polyclonal IgG in PBS, 0.1% sodium azide, 0.2% gelatin.

 Temperature Limitation: Store at 2-8°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The polyclonal antibody reacts with mouse, rat, and human IκB-alpha; the antibody was raised against a peptide mapping to the carboxy terminal domain of human IκB-alpha. The NFκB family of transcription factors is sequestered in the cytoplasm by IκB inhibitory proteins (1&2). IκB-alpha and IκB-beta are the two members of this family most often cited for their regulatory function of NFκB directed gene expression. The interaction of NFκB dimers with IκB proteins keeps the complex in the cytoplasm, but upon cellular stimulation the IκB proteins are phosphorylated and subsequently degraded (1&3). The free NFκB can now enter the nucleus and induce gene expression of proteins critical for cellular proliferation, differentiation, or apoptosis (1-4).

Applications Reported

Purified anti-mo/hu/rat IκB-a poly has been reported for use in immunoprecipitation, immunoblotting (WB), and immunohistochemical staining.

Applications Tested

Purified anti-mo/hu/rat IκB-a poly has been tested by immunoblotting (WB). (1:200 starting dilution). It is recommended that this antibody be titrated for optimal performance in the assay of interest.

References

1. Schmitz ML, Baeuerle PA. 1995. Multi-step activation of NF-kappa B/Rel transcription factors. *Immunobiology* 193(2-4):116-127.
2. Tran K, Merika M, Thanos D. 1997. Distinct functional properties of IkappaB alpha and IkappaB beta. *Mol Cell Biol* 17(9):5386-5399.
3. Tanaka K, Kawakami T, Tateishi K, Yashiroda H, Chiba T. 2001. Control of IkappaBalpha proteolysis by the ubiquitin-proteasome pathway. *Biochimie* 83(3-4):351-356.
4. Chen CG, Malliaros J, Katerelos M, d'Apice AJ, Pearse MJ. Inhibition of NF-kappaB activation by a dominant-negative mutant of IkappaBalpha. *Mol. Immunology* 33(1):57-61.

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