



Product Specification Sheet
Recombinant IKB alpha Protein

Cat # IKBA16-R-10 Recombinant purified human IKB-alpha (E., coli; GST-tag; IKB-alpha)

SIZE: 10 ug

Three major forms of IKB like molecules have been identified and each is characterised by multiple copies of ankyrin repeats. IKB alpha and IKB beta appear to be the major regulatory forms of IKB in most cells. These proteins interact with p65 or cRel containing forms of NFkB and block nuclear import by masking the nuclear localisation sequences of NFkB. The activation of NFkB involves the inducible phosphorylation and subsequent degradation of IKB. Immunoblotting easily detects the hyperphosphorylated forms of IKB alpha, but not phosphorylated IKB beta. Interestingly, IKB alpha and IKB beta mediate different NFkB responses. Ikb alpha appears to control more transient activation of NFkB in response to an inducer, while IKB beta controls a persistent response. Bcl3 interacts with p50 and p52 containing forms of NFkB, but rather than being an inhibitor it appears to function to stimulate transcription. The degradation of IKB is confirmed by immunoblotting..

Source of Antigen and Antibodies

NFKBIA(AAH04983, 1 a.a. - 318 a.a.) full-length recombinant protein with GST was expressed in E. coli and purified (>90%). It is supplied in 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5 (see lot sp. concn on the vial). Store at -20oC for at least 6 month. Do not store diluted solutions at 4oC for more than a few days.

Suggested uses:

Recommended for ELISA or Western with appropriate antibodies..

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder

References: Wu S (2010) J. Clin. Endocrinol. Metab. 95, 1220-1228; Fan C (2003) JBC 278, 2072-2080; Tojima Y (2000) Nature 404, 778-782; Abu-Amer Y (1998) JBC 273, 29417-29423;

**This product is for In vitro research use only.*

Related items

Catalog#	ProdDescription
IKBA15-R-5	Recombinant purified human IKB-alpha (E., coli; His-tag; 1-317 aa), active
IKBA16-R-10	Recombinant purified human IKB-alpha (E., coli; GST-tag; IKB-alpha), active
IKBB25-R-10	Recombinant purified human IKB-beta (E., coli; GST-tag; IKB-beta), active
IKKB35-R-5	Recombinant purified human IKKB-beta (Sf9; GST-His-IKK-B), active

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