Rabbit Monoclonal antibody to IkappaB-alpha [E130]

Catalog Number: NB110-57109

Background: The NF-κB/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory IκB-α protein (1-4). In response to many different NF-κB-inducing agents—including T-cell mitogens, proinflammatory cytokines, and viral transactivators—the inhibitory IκB-α is rapidly phosphorylated and degraded (2). Phosphorylation of IκB-α at Ser32 and Ser36 has been shown to stimulate conjugation with ubiquitin and subsequent degradation of IκB-α (3). Phosphorylation of IκB-α at Ser32 and Ser36 is critical for activation of NF-κB, which then translocates to the nucleus and induces transcription of genes that protect organism (1-4).

Alternate Names: I kappa B alpha antibody
I(Kappa)B(alpha) antibody
IkappaBalpha antibody
IKBA antibody
IKBalpha antibody
MAD 3 antibody
MAD3 antibody
Major histocompatibility complex enhancer binding protein MAD3 antibody
NF kappa B inhibitor alpha antibody
NFKBI antibody
NFKBIA antibody
Nuclear factor of kappa light chain gene enhancer in B cells antibody
Nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor alpha antibody

Host: Rabbit
Clone: E130
Isotype: IgG

Epitope: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA.

Specificity: A synthetic peptide corresponding to human IkappaB-alpha was used as immunogen. Predicted to cross-react with pig and bovine based on sequence homology.

Species Reactivity: Reacts in human, mouse, and rat. Not tested in other species.

Uses: WB: 1:10,000
IHC: 1:50–1:100
ICC: 1:100
IP: 1:25
* Other applications have not been tested.

Dilutions: Suggested working dilutions *
imunohistochemistry,
immunoprecipitation,
Western Blot,
Immunocytochemistry
* Investigator should determine optimal working dilutions.
Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, and 0.05% BSA.
Preservative: 0.01% sodium azide
Storage: Store at -20 °C. Stable for 12 months from date of receipt.
Limitations: This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 6 months from date of receipt.

General References:

Image(s)

Immunohistochemical analysis of paraffin-embedded human prostate carcinoma using anti-IkappaB-alpha RabMAb (catalog #110-57109).