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Store at -20C
#4812

IκBα (44D4) Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Hm Mk Mi	Endogenous	39	Rabbit IgG	#P25963	4792

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #88327.

Specificity/Sensitivity

IκBα (44D4) Rabbit mAb detects endogenous levels of total IκBα protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy-terminus of human IκBα.

Background

The NF-κB/Rel transcription factors are present in the cytosol in an inactive state complexed with the inhibitory IκB proteins (1-3). Activation occurs via phosphorylation of IκBα at Ser32 and Ser36 followed by proteasome-mediated degradation that results in the release and nuclear translocation of active NF-κB (3-7). IκBα phosphorylation and resulting Rel-dependent transcription are activated by a highly diverse group of extracellular signals including inflammatory cytokines, growth factors, and chemokines. Kinases that phosphorylate IκB at these activating sites have been identified (8).

Background References

- Baeuerle, P.A. and Baltimore, D. (1988) *Science* 242, 540-6.
- Beg, A.A. and Baldwin, A.S. (1993) *Genes Dev* 7, 2064-70.
- Finco, T.S. et al. (1994) *Proc Natl Acad Sci USA* 91, 11884-8.
- Brown, K. et al. (1995) *Science* 267, 1485-8.
- Brockman, J.A. et al. (1995) *Mol Cell Biol* 15, 2809-18.
- Traenckner, E.B. et al. (1995) *EMBO J* 14, 2876-83.
- Chen, Z.J. et al. (1996) *Cell* 84, 853-62.
- Karin, M. and Ben-Neriah, Y. (2000) *Annu Rev Immunol* 18, 621-63.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Hm:** Hamster **Mk:** Monkey **Mi:** Mink

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