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#4088

Phospho-IκBα (Ser32/36) (5A5) Mouse mAb (Sepharose® Bead Conjugate)

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IP	H M R Mk	Endogenous	40	Mouse IgG1	#P25963	4792

Product Usage Information

Application

Immunoprecipitation

Dilution

1:20

Storage

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

Specificity/Sensitivity

Phospho-IκBα (Ser32/36) (5A5) Mouse mAb (Sepharose® Bead Conjugate) detects endogenous levels of IκBα only when phosphorylated at Ser32/36.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser32/36 of human IκBα.

Description

This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose® beads. Phospho-IκBα (Ser32/36) (5A5) Mouse mAb (Sepharose® Bead Conjugate) is useful for the immunoprecipitation of phosphorylated 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.
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- 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).

Applications Key

IP: Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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