Store at -20°C

PhosphoPlus® IκBα (Ser32/Ser36) Antibody Duet

#8219

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New 06/18

Entrez-Gene ID #4792
UniProt ID #P25963

For Research Use Only. Not For Use In Diagnostic Procedures.

Products Included	Product #	Quantity	Mol. Wt.	Isotype/Source
Phospho-IκBα (S32/36) (5A5) Mouse mAb	9246	100 µl	40 kDa	Mouse IgG1
IκBα (L35A5) (Amino-terminal) Mouse mAb	4814	100 µl	39 kDa	Mouse IgG1

See www.cellsignal.com for individual component applications, species cross-reactivity, dilutions, and additional application protocols.

Description: PhosphoPlus® Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.

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).

Specificity/Sensitivity: IκBα (L35A5) Mouse mAb (Amino-terminal Antigen) detects endogenous levels of total IκBα protein. Phospho-IκBα (Ser32/36) (5A5) Mouse mAb detects endogenous levels of IκBα only when phosphorylated at Ser32/36.

Source/Purification: Monoclonal antibodies are produced by immunizing animals with a GST-IκBα fusion protein corresponding the amino-terminus of human IκBα protein and a synthetic phosphopeptide corresponding to residues surrounding Ser32/36 of human IκBα protein.

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.*

Background References:

(1) Baeuerle, P.A. and Baltimore, D. (1988) *Science* 242, 540-6.

(2) Beg, A.A. and Baldwin, A.S. (1993) *Genes Dev* 7, 2064-70.

(3) Finco, T.S. et al. (1994) *Proc Natl Acad Sci USA* 91, 11884-8.

(4) Brown, K. et al. (1995) *Science* 267, 1485-8.

(5) Brockman, J.A. et al. (1995) *Mol Cell Biol* 15, 2809-18.

(6) Traenckner, E.B. et al. (1995) *EMBO J* 14, 2876-83.

(7) Chen, Z.J. et al. (1996) *Cell* 84, 853-62.

(8) Karin, M. and Ben-Neriah, Y. (2000) *Annu Rev Immunol* 18, 621-63.

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Applications: W—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide **Species Cross-Reactivity: H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.