Store at -20°C

#4261

Phospho-SRF (Ser103) Antibody

✓ 100 µl
(10 western blots)

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #6722
Swiss-Prot Acc. #P11831

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R	67 kDa	Rabbit**

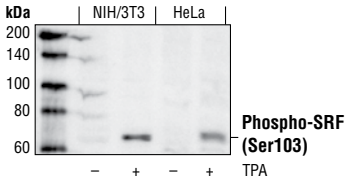
Background: The serum response factor (SRF) is a 67 kDa phospho-protein that, together with auxiliary factors, modulates transcription of immediate early genes containing serum response elements at their promoters (1, 2). SRF contains several phosphorylation sites (3), but functional consequences of phosphorylation have not been identified unequivocally. Several growth factor- and calcium-regulated kinases, such as p90RSK and CaM kinase IV, can phosphorylate SRF at Ser103 (4, 5), and Ser103 of SRF is also a nuclear target for MAPKAP kinase 2 (6).

Specificity/Sensitivity: Phospho-SRF (Ser103) Antibody detects endogenous levels of SRF only when phosphorylated at serine 103. This antibody cross-reacts with a non-specific protein of approximately 52 kDa.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide (KLH-coupled) corresponding to residues around serine 103 of human SRF. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

(1) Treisman, R. (1995) *EMBO J.* 14, 4905–4913.
(2) Janknecht, R. et al. (1995) *Carcinogenesis* 16, 443–450.
(3) Marais, R.M. et al. (1992) *EMBO J.* 11, 97–105.
(4) Rivera, V.M. et al. (1993) *Mol. Cell. Biol.* 13, 6260–6273.
(5) Miranti, C.K. et al. (1995) *Mol. Cell. Biol.* 15, 3672–3684.
(6) Heidenreich, O. et al. (1999) *JBC* 274, 14434–14443.



Western blot analysis of extracts from NIH/3T3 and HeLa cells, untreated or TPA-treated using Phospho-SRF (Ser103) Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. *Do not aliquot the antibody.*

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:
Western Blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide

Species Cross-Reactivity Key: **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.

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