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Phospho-SRF (Ser103) Antibody

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

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|---------------------------|-----------------------------|-----------------------------------|------------------------|----------------------------------|-------------------------------|--------------------------------|
| Applications: W | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 67 | Source/Isotype: Rabbit | UniProt ID: #P11831 | Entrez-Gene Id: 6722 |
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| Product Usage Information | Application Western Blotting | Dilution 1:1000 |
| 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. | |
| 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 corresponding to residues around serine 103 of human SRF. Antibodies are purified by protein A and peptide affinity chromatography. | |
| 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). | |
| Background References | <ol style="list-style-type: none"> 1. Treisman, R. (1995) <i>EMBO J</i> 14, 4905-13. 2. Janknecht, R. et al. (1995) <i>Carcinogenesis</i> 16, 443-50. 3. Marais, R.M. et al. (1992) <i>EMBO J</i> 11, 97-105. 4. Rivera, V.M. et al. (1993) <i>Mol Cell Biol</i> 13, 6260-73. 5. Miranti, C.K. et al. (1995) <i>Mol Cell Biol</i> 15, 3672-84. 6. Heidenreich, O. et al. (1999) <i>J Biol Chem</i> 274, 14434-43. | |

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| 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 |
| Cross-Reactivity Key | H: Human M: Mouse R: Rat |
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