

**SRF (D71A9) XP<sup>®</sup> Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, ChIP	H M R Mk Pg	Endogenous	67	Rabbit IgG	#P11831	6722

**Product Usage Information**

For optimal ChIP results, use 5 µl of antibody and 10 µg of chromatin (approximately 4 x 10<sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP<sup>®</sup> Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Chromatin IP	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.

**Specificity/Sensitivity**

SRF (D71A9) XP<sup>®</sup> Rabbit mAb recognizes endogenous levels of total SRF protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser375 of human SRF protein.

**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**

1. Treisman, R. (1995) *EMBO J* 14, 4905-13.
2. Janknecht, R. et al. (1995) *Carcinogenesis* 16, 443-50.
3. Marais, R.M. et al. (1992) *EMBO J* 11, 97-105.
4. Rivera, V.M. et al. (1993) *Mol Cell Biol* 13, 6260-73.
5. Miranti, C.K. et al. (1995) *Mol Cell Biol* 15, 3672-84.
6. Heidenreich, O. et al. (1999) *J Biol Chem* 274, 14434-43.

**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 **ChIP:** Chromatin IP

**Cross-Reactivity Key**

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

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