SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-SRF antibody

Catalog Number: SL1401R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SRF
Immunogen:	KLH conjugated synthetic peptide derived from human SRF: 101-250/508
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 Flow-Cyt=1ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, (predicted: Rat, Dog, Pig, Cow)
Predicted MW.:	56kDa
Subcellular Location:	The nucleus
Background:	This gene encodes a ubiquitous nuclear protein that stimulates both cell proliferation and differentiation. It is a member of the MADS (MCM1, Agamous, Deficiens, and SRF) box superfamily of transcription factors. This protein binds to the serum response element (SRE) in the promoter region of target genes. This protein regulates the activity of many immediate-early genes, for example c-fos, and thereby participates in cell cycle regulation, apoptosis, cell growth, and cell differentiation. This gene is the downstream target of many pathways; for example, the mitogen-activated protein kinase pathway (MAPK) that acts through the ternary complex factors (TCFs). [provided by RefSeq, Jul 2008].

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Function: SRF is a transcription factor that binds to the serum response element (SRE), a short sequence of dyad symmetry located 300 bp to the 5' of the site of transcription initiation of some genes (such as FOS). Required for cardiac differentiation and maturation. **Subunit:** Binds DNA as a multimer, probably a dimer. Interacts with MLLT7/FOXO4, NKX3A and SSRP1. Interacts with ARID2 and SRFBP1. Forms complexes with ARID2, MYOCD, NKX2-5 and SRFBP1. Forms a nuclear ternary complex with MKL1 and SCAI. **Subcellular Location:** Nucleus. **Post-translational modifications:** Phosphorylated by PRKDC. **Similarity:** Contains 1 MADS-box domain. **Database links:** **Entrez Gene:** 6722 Human **Entrez Gene:** 20807 Mouse **Entrez Gene:** 501099 Rat Omim: 600589 Human **SwissProt:** P11831 Human **SwissProt:** Q9JM73 Mouse **Unigene:** 520140 Human **Unigene:** 45044 Mouse transcriptional regulatory factor（Transcriptin Regulators） Serum response factor (SRF) is a transcription factor protein that binds to the serum response element (SRE) in promoter DNA sequences and regulates the expression of a series of genes, including immediate early genes such as c-fos, fosB, junB, egr-1, and egr-2, as well as neuronal genes such as nurr1 and muscle genes such as actin and myosin genes.

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[VALIDATION IMAGES]

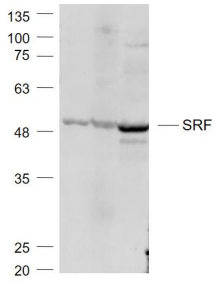


Figure 1. Sample: A431(Human) Cell Lysate at 30 ug Hela(Human) Cell Lysate at 30 ug 293T(Human) Cell Lysate at 30 ug Primary: Anti- SRF (SL1401R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kD Observed band size: 52 kD

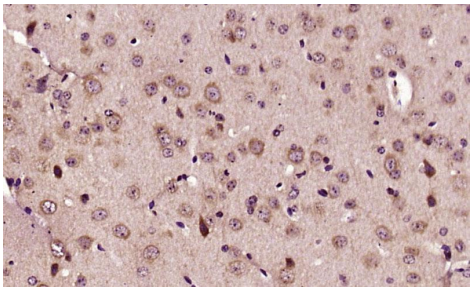


Figure 2. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SRF) Polyclonal Antibody, Unconjugated (SL1401R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining

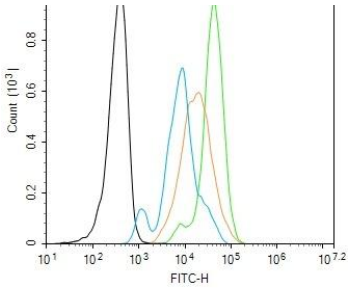


Figure 3. Blank control (black line) :Hela. Primary Antibody (green line): Rabbit Anti-SRF antibody (SL1401R) Dilution:1ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20℃, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed

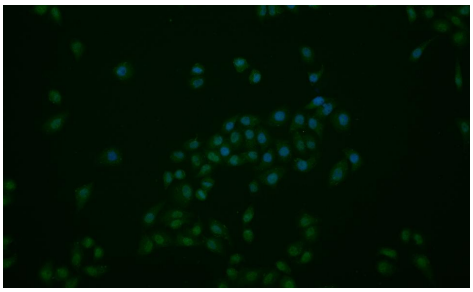


Figure 4. Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (SRF) polyclonal Antibody, Unconjugated (SL1401R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei

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