

## Serum Response Element Binding Transcription Factor (SRF) Antibody

Mouse Monoclonal Antibody [Clone PCRP-SRF-1F7]

| Catalog No      | Format                                        | Size   |
|-----------------|-----------------------------------------------|--------|
| 6722-MSM2-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 6722-MSM2-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 6722-MSM2-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

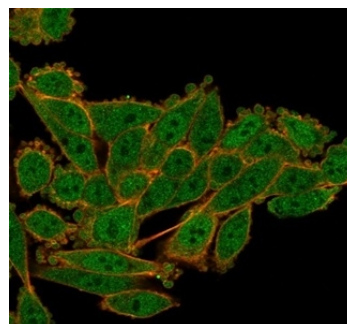
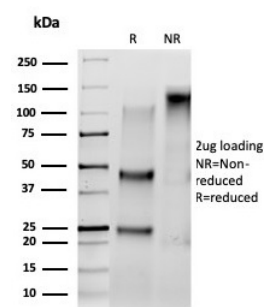
| Applications               | Tested Dillution    | Note                                                                                                                                                                              |
|----------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flow Cytometry (Flow)      | 1-2ug/million cells |                                                                                                                                                                                   |
| Immunofluorescence (IF)    | 1-3ug/ml            |                                                                                                                                                                                   |
| Immunohistochemistry (IHC) | 1-2ug/ml            | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB)          | 2-4ug/ml            |                                                                                                                                                                                   |

### Product Details

|                        |                                           |
|------------------------|-------------------------------------------|
| Clone                  | PCRP-SRF-1F7                              |
| Gene Name              | SRF                                       |
| Immunogen              | Recombinant full-length human SRF protein |
| Host                   | Mouse                                     |
| Clonality              | Monoclonal                                |
| Isotype / Light Chain  | IgG2b                                     |
| Mol. Weight of Antigen | 40-67kDa                                  |
| Cellular Localization  | Nucleus                                   |
| Species Reactivity     | Human                                     |
| Positive Control       | HeLa, U87 or Jurkat cells.                |

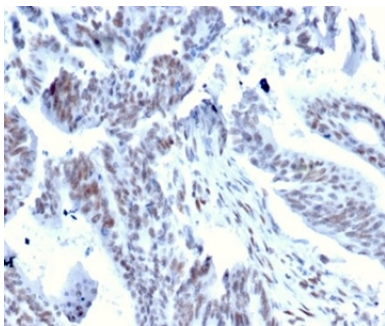
\*Optimal dilution for a specific application should be determined.

### Product Images for Serum Response Element Binding Transcription Factor (SRF) Antibody

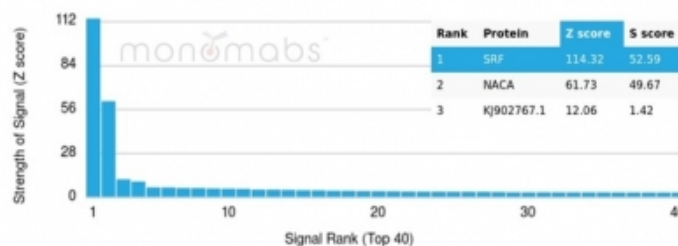


SDS-PAGE Analysis Purified SRF Mouse Monoclonal Antibody (PCRP-SRF-1F7). Confirmation of Purity and Integrity of Antibody.

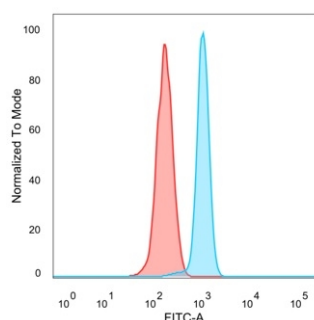
Immunofluorescence Analysis of PFA-fixed HeLa cells stained using SRF Mouse Monoclonal Antibody (PCRP-SRF-1F7) followed by goat anti-mouse IgG-CF488 (green). CF640R phalloidin (red).



IHC analysis of formalin-fixed, paraffin-embedded human colon. Strong nuclear staining using PCRP-SF7-1F1 at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



Analysis of Protein Array containing more than 19,000 full-length human proteins using SRF-Monospecific Mouse Monoclonal Antibody (PCRP-SRF-1F7). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow cytometric analysis of PFA-fixed HeLa cells. SRF Mouse Monoclonal Antibody (PCRP-SRF-1F7) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

## Specificity & Comments

Serum response factor (SRF) is a transcription factor that binds the serum response element (SRE), a sequence that mediates the transient response of many cellular genes to growth stimulation. SRF-binding sites are also constitutive promoter elements in many muscle-specific promoters. At the c-Fos SRE, formation of a ternary complex containing SRF and its accessory protein p62TCF appears to be important for signal transduction. Two related Ets domain proteins, Elk-1 and SRF accessory protein-1 (SAP-1), have DNA binding properties identical to that of p62TCF. Elk-1 and SAP-1 contain two homologous regions of which the two amino-terminal regions, the Ets domain (box A) and the B box, mediate ternary complex formation with SRF. The third homologous region, the C box located toward the C-terminus of the proteins, contains conserved consensus phosphorylation sites for MAP kinases.

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

## Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Cardiovascular, Developmental Biology, MAPK Signaling, Nuclear Marker, Signal Transduction, Transcription Factors