



## SDF-4 (E-13): sc-47372

### BACKGROUND

The C-X-C or  $\alpha$  chemokine family is characterized by a pair of cysteine residues separated by a single amino acid and primarily functions as chemo-attractants for neutrophils. The C-X-C family includes IL-8, NAP-2, MSGA, stromal cell derived factor-1 (SDF-1) and SDF-4. SDF-1 was originally described as a pre-B cell stimulatory factor, but has now been shown to function as a potent chemo-attractant for T cells and monocytes but not neutrophils. SDF-4, also designated Cab45, is a 45 kDa protein that contains six EF-hand calcium-binding motifs. SDF-4 is ubiquitously expressed and localizes to the Golgi where it may regulate calcium-dependent activities.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: SDF4 (human) mapping to 1p36.33; Sdf4 (mouse) mapping to 4 E2.

### SOURCE

SDF-4 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of SDF-4 of human origin.

### PRODUCT

Each vial contains 200  $\mu\text{g}$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-47372 P, (100  $\mu\text{g}$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

SDF-4 (E-13) is recommended for detection of mature SDF-4 and Cab45 precursor of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SDF-4 siRNA (h): sc-61508 and SDF-4 siRNA (m): sc-61509.

Molecular Weight of SDF-4: 45 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.