SANTA CRUZ BIOTECHNOLOGY, INC.

SDF-4 (h): 293 Lysate: sc-112321

BACKGROUND

The C-X-C or α chemokine family is characterized by a pair of cysteine residues separated by a single amino acid and primarily functions as chemoattractants 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, 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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6. Koivu, T., Laitinen, S., Riento, K. and Olkkonen, V.M. 1997. Sequence of a human cDNA encoding Cab45, a Ca^{2+}-binding protein with six EF-hand motifs. DNA Seq. 7: 217-220.

CHROMOSOMAL LOCATION

Genetic locus: SDF4 (human) mapping to 1p36.33.

PRODUCT

SDF-4 (h): 293 Lysate represents a lysate of human SDF-4 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

SDF-4 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive SDF-4 antibodies. Recommended use: 10-20 µl per lane.

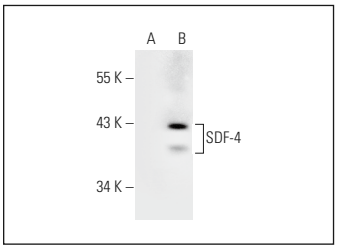
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-tranfected 293 cells.

SDF-4 (E-12): sc-393930 is recommended as a positive control antibody for Western Blot analysis of enhanced human SDF-4 expression in SDF-4 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



SDF-4 (E-12): sc-393930. Western blot analysis of SDF-4 expression in non-transfected: sc-110760 (**A**) and human SDF-4 transfected: sc-112321 (**B**) 293 whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.