

CXCR-3 (L-17): sc-9901

BACKGROUND

The CXC or α 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 CXC family includes IL-8, NAP-2, MSGA and stromal cell derived factor-1 or SDF-1. 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. Receptors for the CXC family are G protein-coupled, seven pass transmembrane domain proteins which include IL-8RA, IL-8RB, CXCR-3 and fusin (variously referred to as LESTR or CXCR-4). CXCR-3, also known as IP-10/Mig receptor, mediates Ca^{2+} mobilization and chemotaxis in response to the CXC chemo-kines IP-10 and Mig. CXCR-3 is highly expressed in IL-2-activated T lymphocytes, but not in resting T lymphocytes, B lymphocytes, monocytes or granulocytes.

REFERENCES

1. Laterveer, L., et al. 1996. Rapid mobilization of hematopoietic progenitor cells in Rhesus monkeys by a single intravenous injection of interleukin-8. *Blood* 87: 781-788.
2. Deng, H., et al. 1996. Identification of a major co-receptor for primary isolates of HIV-1. *Nature* 381: 661-666.
3. Nagasawa, T., et al. 1996. Defects of B-cell lymphopoiesis and bone-marrow myelopoiesis in mice lacking the CXC chemokine PBSF/SDF-1. *Nature* 382: 635-638.
4. Ahuja, S.K., et al. 1996. CXC chemokines bind to unique sets of selectivity determinants that can function independently and are broadly distributed on multiple domains of human interleukin-8 receptor B. Determinants of high affinity binding and receptor activation are distinct. *J. Biol. Chem.* 271: 225-232.

CHROMOSOMAL LOCATION

Genetic locus: CXCR3 (human) mapping to Xq13.1; Cxcr3 (mouse) mapping to X D.

SOURCE

CXCR-3 (L-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CXCR-3 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9901 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

CXCR-3 (L-17) is recommended for detection of CXCR-3 of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

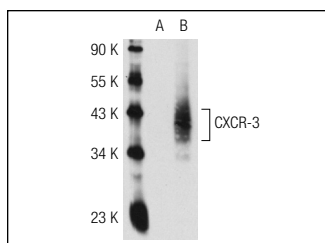
CXCR-3 (L-17) is also recommended for detection of CXCR-3 in additional species, including canine and porcine.

Suitable for use as control antibody for CXCR-3 siRNA (h): sc-39902, CXCR-3 siRNA (m): sc-39903, CXCR-3 shRNA Plasmid (h): sc-39902-SH, CXCR-3 shRNA Plasmid (m): sc-39903-SH, CXCR-3 shRNA (h) Lentiviral Particles: sc-39902-V and CXCR-3 shRNA (m) Lentiviral Particles: sc-39903-V.

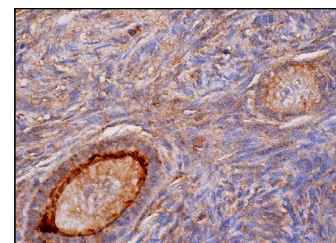
Molecular Weight of CXCR-3: 38 kDa.

Positive Controls: CXCR-3 (h): 293T Lysate: sc-114511, Caki-1 cell lysate: sc-2224 or HeLa whole cell lysate: sc-2200.

DATA



CXCR-3 (L-17): sc-9901. Western blot analysis of CXCR-3 expression in non-transfected: sc-117752 (A) and human CXCR-3 transfected: sc-114511 (B) 293T whole cell lysates.



CXCR-3 (L-17): sc-9901. Immunoperoxidase staining of formalin fixed, paraffin-embedded human ovary tissue showing membrane and cytoplasmic staining of follicle cells and cytoplasmic staining of ovarian stroma cells.

SELECT PRODUCT CITATIONS

1. Flugel, A., et al. 2001. Migratory activity and functional changes of green fluorescent effector cells before and during experimental autoimmune encephalomyelitis. *Immunity* 14: 547-560.
2. Kallapur, S.G., et al. 2003. Increased IP-10 and MIG expression after intra-amniotic endotoxin in preterm lamb lung. *Am. J. Respir. Crit. Care Med.* 167: 779-786.

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Try **CXCR-3 (H-1): sc-133087** or **CXCR-3 (G-8): sc-137140**, our highly recommended monoclonal alternatives to CXCR-3 (L-17).