**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 stomatal 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 Ca²⁺ 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.

**CHROMOSOMAL LOCATION**

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

**SOURCE**

CXCR-3 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CXCR-3 of human origin.

**PRODUCT**

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

Blocking peptide available for competition studies, sc-6226 P, (100 µg 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.

**APPLICATIONS**

CXCR-3 (C-20) is recommended for detection of CXCR-3 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), 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 (C-20) is also recommended for detection of CXCR-3 in additional species, including equine and bovine.

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: THP-1 cell lysate: sc-2238, HeLa whole cell lysate: sc-2200 or Caki-1 cell lysate: sc-2224.

**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. 3) Immunohistochemistry: use Immunocruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

**MONOS Satisfaction Guaranteed**

Try CXCR-3 (H-1): sc-133087 or CXCR-3 (G-8): sc-137140, our highly recommended monoclonal alternatives to CXCR-3 (C-20).