SANTA CRUZ BIOTECHNOLOGY, INC.

Bonzo (C-20): sc-8527

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Bonzo (also designated STRL33.3) and BOB (brother of Bonzo; also designated GRP15) are seven-transmembrane, G protein-coupled receptors that are closely related to chemokine receptor family members. In conjunction with CD4, several chemokine receptors are known to serve as receptors for HIV-1 entry into cells. Bonzo and BOB are utilized by simian immunodeficiency virus (SIV), HIV-2 and M-tropic HIV-1 for cell entry. Bonzo and BOB are both expressed in lymphoid tissues, and BOB is also expressed in colon.

REFERENCES

1. Heiber, M., et al. 1996. A novel human gene encoding a G protein-coupled receptor (GPR15) is located on chromosome 3. Genomics 32: 462-465.
2. Deng, H., et al. 1996. Identification of a major co-receptor for primary isolates of HIV-1. Nature 381: 661-666.
3. Dragic, T., et al. 1996. HIV-1 entry into CD4+ cells is mediated by the chemokine receptor C-C CKR5. Nature 381: 667-673.
4. Choe, H., et al. 1996. The β-chemokine receptors CCR3 and CCR5 facilitate infection by primary HIV-1 isolates. Cell 85: 1135-1148.
5. Doranz, B.J., et al. 1996. A dual-tropic primary HIV-1 isolate that uses fusin and the β-chemokine receptors CKR-5, CKR-3, and CKR-2β as fusion cofactors. Cell 85: 1149-1158.
6. Feng, Y., et al. 1996. HIV-1 entry cofactor: functional cDNA cloning of a seven-transmembrane, G protein-coupled receptor. Science 272: 872-877.
7. Alkhatib, G., et al. 1996. C-C CKR5: a RANTES, MIP-1α, MIP-1β receptor as a fusion cofactor for macrophage-tropic HIV-1. Science 272: 1955-1958.
8. Deng, H.K., et al. 1997. Expression cloning of new receptors used by simian and human immunodeficiency viruses. Nature 388: 296-300.

CHROMOSOMAL LOCATION

Genetic locus: CXCR6 (human) mapping to 3p21.31; Cxcr6 (mouse) mapping to 9 F4.

SOURCE

Bonzo (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Bonzo 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-8527 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

Bonzo (C-20) is recommended for detection of Bonzo of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Bonzo (C-20) is also recommended for detection of Bonzo in additional species, including canine.

Suitable for use as control antibody for Bonzo siRNA (h): sc-39895, Bonzo siRNA (m): sc-39896, Bonzo shRNA Plasmid (h): sc-39895-SH, Bonzo shRNA Plasmid (m): sc-39896-SH, Bonzo shRNA (h) Lentiviral Particles: sc-39895-V and Bonzo shRNA (m) Lentiviral Particles: sc-39896-V.

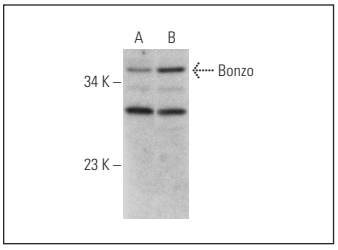
Molecular Weight of Bonzo: 39 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206 or SK-BR-3 cell lysate: sc-2218.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



Bonzo (C-20): sc-8527. Western blot analysis of Bonzo expression in SK-BR-3 (**A**) and MCF7 (**B**) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.