Bonzo (43F09): sc-73753



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

- Heiber, M., Marchese, A., Nguyen, T., Heng, H.H., George, S.R. and O'Dowd, B.F. 1996. A novel human gene encoding a G protein-coupled receptor (GPR15) is located on chromosome 3. Genomics 32: 462-465.
- Deng, H., Liu, R., Ellmeier, W., Choe, S., Unutmaz, D., Burkhart, M., Di Marzio, P., Marmon, S., Sutton, R.E. and Hill, C.M. 1996. Identification of a major co-receptor for primary isolates of HIV-1. Nature 381: 661-666.
- Dragic, T., Litwin, V., Allaway, G.P., Martin, S.R., Huang, Y., Nagashima, K.A., Cayanan, C., Maddon, P.J., Koup, R.A. and Moore, J.P. 1996. HIV-1 entry into CD4+ cells is mediated by the chemokine receptor C-C CKR-5. Nature 381: 667-673.
- 4. Choe, H., Farzan, M., Sun, Y., Sullivan, N., Rollins, B., Ponath, P.D., Wu, L., Mackay, C.R., LaRosa, G. and Newman, W. 1996. The β -chemokine receptors CCR3 and CCR5 facilitate infection by primary HIV-1 isolates. Cell 85: 1135-1148.
- 5. Doranz, B.J., Rucker, J., Yi, Y., Smyth, R.J., Samson, M., Peiper, S.C., Parmentier, M., Collman, R.G. and Doms, R.W. 1996. A dual-tropic primary HIV-1 isolate that uses fusin and the β -chemokine receptors CKR-5, CKR-3, and CKR-2 β as fusion cofactors. Cell 85: 1149-1158.
- Feng, Y., Broder, C.C., Kennedy, P.E. and Berger, E.A. 1996. HIV-1 entry cofactor: functional cDNA cloning of a seven-transmembrane, G proteincoupled receptor. Science 272: 872-877.
- 7. Alkhatib, G., Combadiere, C., Broder, C.C., Feng, Y., Kennedy, P.E., Murphy, P.M. and Berger, E.A. 1996. C-C CKR-5: a RANTES, MIP-1 α , MIP-1 β receptor as a fusion cofactor for macrophage-tropic HIV-1. Science 272: 1955-1958.
- Deng, H.K., Unutmaz, D., Kewalramani, V.N. and Littman, D.R. 1997. Expression cloning of new receptors used by simian and human immunodeficiency viruses. Nature 388: 296-300.

CHROMOSOMAL LOCATION

Genetic locus: Cxcr6 (mouse) mapping to 9 F4.

SOURCE

Bonzo (43F09) is a rat monoclonal antibody raised against CHO cells transfected with Bonzo of mouse origin.

PRODUCT

Each vial contains 100 $\mu g \; lg G_{2b}$ in 1.0 ml PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

Bonzo (43F09) is recommended for detection of Bonzo of mouse origin by flow cytometry (1 μ g per 1 x 10⁶ cells).

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

Molecular Weight of Bonzo: 39 kDa.

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 for detailed protocols and support products.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 Fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com