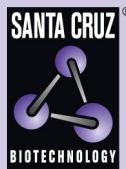


GPR84 (H-300): sc-99106



BACKGROUND

G protein-coupled receptors (GPCRs), also designated seven transmembrane (7TM) receptors and heptahelical receptors, are a protein family which interact with G proteins (heterotrimeric GTPases) to synthesize intracellular second messengers such as diacylglycerol, cyclic AMP, inositol phosphates and calcium ions. Their diverse biological functions range from vision and olfaction to neuronal and endocrine signaling and are involved in many pathological conditions. G protein receptor 84 (GPR84), a member of the GPCR 1 family, is an orphan GPCR expressed in bone marrow, brain, heart, muscle, colon, thymus, spleen, kidney, liver, placenta, intestine, lung and peripheral blood leukocytes. In activated T cells, GPR84 regulates early interleukin-4 (IL-4) gene expression.

REFERENCES

1. Lameh, J., Cone, R.I., Maeda, S., Philip, M., Corbani, M., Nádasdi, L., Ramachandran, J., Smith, G.M. and Sadée, W. 1991. Structure and function of G protein-coupled receptors. *Pharm. Res.* 7: 1213-1221.
2. Probst, W.C., Snyder, L.A., Schuster, D.I., Brosius, J. and Sealfon, S.C. 1992. Sequence alignment of the G protein-coupled receptor superfamily. *DNA Cell Biol.* 11: 1-20.
3. Yousefi, S., Cooper, P.R., Potter, S.L., Mueck, B. and Jarai, G. 2001. Cloning and expression analysis of a novel G protein-coupled receptor selectively expressed on granulocytes. *J. Leuk. Biol.* 69: 1045-1052.
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CHROMOSOMAL LOCATION

Genetic locus: GPR84 (human) mapping to 12q13.13; Gpr84 (mouse) mapping to 15 F3.

SOURCE

GPR84 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of GPR84 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.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

GPR84 (H-300) is recommended for detection of GPR84 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).

GPR84 (H-300) is also recommended for detection of GPR84 in additional species, including equine and bovine.

Suitable for use as control antibody for GPR84 siRNA (h): sc-60751, GPR84 siRNA (m): sc-60752, GPR84 shRNA Plasmid (h): sc-60751-SH, GPR84 shRNA Plasmid (m): sc-60752-SH, GPR84 shRNA (h) Lentiviral Particles: sc-60751-V and GPR84 shRNA (m) Lentiviral Particles: sc-60752-V.

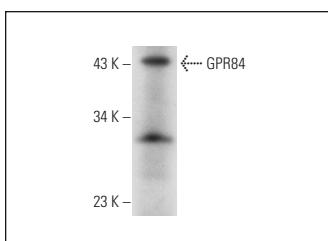
Molecular Weight of GPR84: 44 kDa.

Positive Controls: human bone marrow extract: sc-363752.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



GPR84 (H-300): sc-99106. Western blot analysis of GPR84 expression in human bone marrow tissue extract.

RESEARCH USE

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



Try **GPR84 (1D9): sc-293447**, our highly recommended monoclonal alternative to GPR84 (H-300).