

GPR146 (S-14): sc-104284

BACKGROUND

G protein-coupled receptors (GPRs), also known as seven transmembrane receptors, heptahelical receptors or 7TM receptors, comprise a superfamily of proteins that play a role in many different stimulus-response pathways. G protein-coupled receptors translate extracellular signals into intracellular signals (G protein activation) and they respond to a variety of signaling molecules, such as hormones and neurotransmitters. GPR146 (G protein-coupled receptor 146), also known as PGR8, is a 333 amino acid multi-pass transmembrane protein that belongs to the G protein-coupled receptor 1 family. Characterized as an orphan receptor for which its endogenous ligand has yet to be identified, GPR146 is thought to play a role in signaling events throughout the cell.

REFERENCES

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4. Bjarnadóttir, T.K., et al. 2007. Identification of novel splice variants of adhesion G protein-coupled receptors. *Gene* 387: 38-48.
5. Lagerström, M.C. and Schiöth, H.B. 2008. Structural diversity of G protein-coupled receptors and significance for drug discovery. *Nat. Rev. Drug Discov.* 7: 339-357.
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CHROMOSOMAL LOCATION

Genetic locus: *Gpr146* (mouse) mapping to 5 G2.

SOURCE

GPR146 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of GPR146 of mouse 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-104284 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GPR146 (S-14) is recommended for detection of GPR146 of mouse and rat 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); non cross-reactive with other GPR family members.

Suitable for use as control antibody for GPR146 siRNA (m): sc-105404, GPR146 shRNA Plasmid (m): sc-105404-SH and GPR146 shRNA (m) Lentiviral Particles: sc-105404-V.

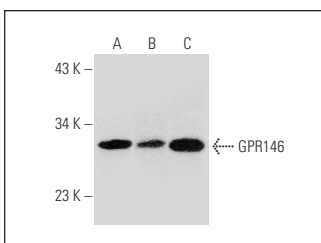
Molecular Weight of GPR146: 37 kDa.

Positive Controls: mouse lung extract: sc-2390, RAW 264.7 whole cell lysate: sc-2211 or c4 whole cell lysate: sc-364186.

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



GPR146 (S-14): sc-104284. Western blot analysis of GPR146 expression in c4 (A) and RAW 264.7 (B) whole cell lysates and mouse lung tissue extract (C).

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 or our catalog for detailed protocols and support products.