



FKSG80 (C-16): sc-32648

BACKGROUND

G protein-coupled receptor 81 (FKSG80) belongs to the G protein-coupled receptor 1 family. It is an integral membrane protein which functions as an orphan receptor. The gene encoding the FKSG80 protein, GPR81, maps to chromosome 12q24.31 in humans. The FKSG80 protein is a 347 amino acid protein that shares 70% homology to the chemokine receptor HM74. FKSG80 is expressed mainly in pituitary, but can also be detected in adipose tissue. It is not found in hippocampus, basal forebrain, frontal, temporal and occipital lobes of the cortex, caudate nucleus or nucleus accumbens.

REFERENCES

1. Lee, D.K., et al. 2001. Discovery and mapping of ten novel G protein-coupled receptor genes. *Gene* 275: 83-91.
2. Wise, A., et al. 2003. Molecular identification of high and low affinity receptors for nicotinic acid. *J. Biol. Chem.* 278: 9869-9874.
3. Abbracchio, M.P., et al. 2003. Characterization of the UDP-glucose receptor (re-named here the P2Y14 receptor) adds diversity to the P2Y receptor family. *Trends Pharmacol. Sci.* 24: 52-55.
4. Mao, M., et al. 2004. T lymphocyte activation gene identification by co-regulated expression on DNA microarrays. *Genomics* 83: 989-999.
5. <http://harvester.embl.de/harvester/Q9BX/Q9BXC0.htm>
6. SWISS-PROT/TrEMBL (Q9BXC0). World Wide Web URL: <http://www.expasy.ch/sprot/sprot-top.html>

CHROMOSOMAL LOCATION

Genetic locus: GPR81 (human) mapping to 12q24.31; Gpr81 (mouse) mapping to 5 F.

SOURCE

FKSG80 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of FKSG80 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-32648 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.

PROTOCOLS

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

APPLICATIONS

FKSG80 (C-16) is recommended for detection of FKSG80 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FKSG80 siRNA (h): sc-44643 and FKSG80 siRNA (m): sc-44644.

Molecular Weight of FKSG80: 39 kDa.

Positive Controls: T24 cell lysate: sc-2292.

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.

RESEARCH USE

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