

# GPR19 (C-20): sc-74634

## BACKGROUND

G protein-coupled receptors (GPRs or GPCRs), also known as seven transmembrane receptors, heptahelical receptors, or 7TM receptors, are members of the largest protein family and play a role in many different stimulus-response pathways. G protein-coupled receptors mediate extracellular signals into intracellular signals (G-protein activation). They respond to a great variety of signaling molecules, including hormones, neurotransmitters and other proteins and peptides. GPR proteins are integral seven-pass membrane proteins with some conserved amino acid regions. GPR19, an orphan receptor, shows elevated expression during embryonic development of the nervous system as well as in specific regions of adult mouse brain, including the olfactory bulb, the hippocampus, hypothalamic nuclei and the cerebellum. The GPR19 gene maps to a location on chromosome 12, which is a frequent target for rearrangement in cancer cells and involved in childhood acute lymphoblastic leukemia (ALL).

## REFERENCES

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## STORAGE

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

## CHROMOSOMAL LOCATION

Genetic locus: GPR19 (human) mapping to 12p13.1; Gpr19 (mouse) mapping to 6 G1.

## SOURCE

GPR19 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of GPR19 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-74634 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

GPR19 (C-20) is recommended for detection of GPR19 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).

GPR19 (C-20) is also recommended for detection of GPR19 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for GPR19 siRNA (h): sc-75173, GPR19 siRNA (m): sc-75174, GPR19 shRNA Plasmid (h): sc-75173-SH, GPR19 shRNA Plasmid (m): sc-75174-SH, GPR19 shRNA (h) Lentiviral Particles: sc-75173-V and GPR19 shRNA (m) Lentiviral Particles: sc-75174-V.

Molecular Weight of GPR19: 48 kDa.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.