SANTA CRUZ BIOTECHNOLOGY, INC.

GPR34 (C-19): sc-69171

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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. GPR signaling is an evolutionarily ancient mechanism used by all eukaryotes to sense environmental stimuli and mediate cell-cell communication. 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. GPR34 is a 381 amino acid protein belonging to the G protein-coupled receptor 1 family. Widely expressed, GPR34 is localized to the cell membrane.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GPR34 (human) mapping to Xp11.4; Gpr34 (mouse) mapping to X A1.1.

SOURCE

GPR34 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of GPR34 of human origin.

STORAGE

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

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-69171 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GPR34 (C-19) is recommended for detection of GPR34 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).

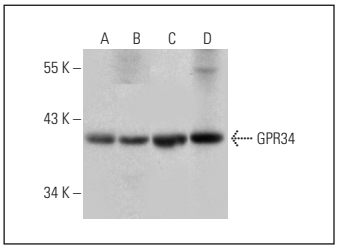
GPR34 (C-19) is also recommended for detection of GPR34 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for GPR34 siRNA (h): sc-75175, GPR34 siRNA (m): sc-75176, GPR34 shRNA Plasmid (h): sc-75175-SH, GPR34 shRNA Plasmid (m): sc-75176-SH, GPR34 shRNA (h) Lentiviral Particles: sc-75175-V and GPR34 shRNA (m) Lentiviral Particles: sc-75176-V.

Molecular Weight of GPR34: 44/75-90 kDa.

Positive Controls: mouse brain extract: sc-2253, SK-N-MC cell lysate: sc-2237 or I-11.15 whole cell lysate: sc-364370.

DATA



GPR34 (C-19): sc-69171. Western blot analysis of GPR34 expression in I-11.15 (**A**) and SK-N-MC (**B**) whole cell lysates and mouse brain (**C**) and mouse placenta (**D**) tissue extracts.

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.