



## GPR10 (K-13): sc-47010

### 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. G protein coupled receptor 10 (GPR10) acts as a receptor for prolactin-releasing peptide (PrRP). GPR10 plays a role in the regulation of food intake, pain-signal processing and in lactation. Primarily expressed in pituitary gland, it is repressed by bromocriptine. GPR10 interacts with various other proteins, including GRIP1, GRIP2 and PICK1.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: GPR10 (human) mapping to 10q26.11; Gpr10 (mouse) mapping to 19 D3.

### SOURCE

GPR10 (K-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of GPR10 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-47010 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

GPR10 (K-13) is recommended for detection of GPR10 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).

GPR10 (K-13) is also recommended for detection of GPR10 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for GPR10 siRNA (h): sc-60725, GPR10 siRNA (m): sc-60726, GPR10 shRNA Plasmid (h): sc-60725-SH, GPR10 shRNA Plasmid (m): sc-60726-SH, GPR10 shRNA (h) Lentiviral Particles: sc-60725-V and GPR10 shRNA (m) Lentiviral Particles: sc-60726-V.

Molecular Weight of GPR10: 41 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.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.