SANTA CRUZ BIOTECHNOLOGY, INC.

GPR35 (S-13): sc-79510

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. 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. GPR35 (G protein-coupled receptor 35) is a 309 amino acid multi-pass membrane protein that belongs to the G protein-coupled receptor 1 family. Expressed in adult and fetal tissues, including lung, pancreas, colon and intestine, GPR35 functions as an orphan receptor that is thought to play a role in signaling events throughout the cell.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GPR35 (human) mapping to 2q37.3.

SOURCE

GPR35 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of GPR35 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-79510 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GPR35 (S-13) is recommended for detection of GPR35 of 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).

Suitable for use as control antibody for GPR35 siRNA (h): sc-75177, GPR35 shRNA Plasmid (h): sc-75177-SH and GPR35 shRNA (h) Lentiviral Particles: sc-75177-V.

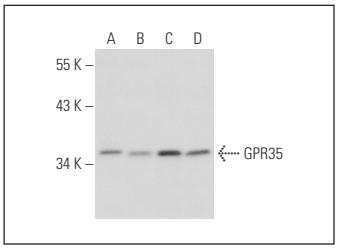
Molecular Weight of GPR35: 34 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, HEK293 whole cell lysate: sc-45136 or Jurkat whole cell lysate: sc-2204.

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



GPR35 (S-13): sc-79510. Western blot analysis of GPR35 expression in MCF7 (**A**), HEK293 (**B**), Jurkat (**C**) and K-562 (**D**) whole cell lysates.

RESEARCH USE

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