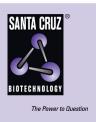
SANTA CRUZ BIOTECHNOLOGY, INC.

GPR114 (G-12): sc-136694



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. GPR114 (G protein-coupled receptor 114), also known as G protein-coupled receptor PGR27, is a 528 amino acid multi-pass membrane protein belonging to the G protein-coupled receptor 2 family and LN-TM7 subfamily. Containing one GPS domain and mapping to human chromosome 16, GPR114 functions as an orphan receptor. Chromosome 16 encodes over 900 genes, comprises nearly 3% of the human genome and is associated with both Rubinstein-Taybi syndrome and Crohn's disease.

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CHROMOSOMAL LOCATION

Genetic locus: GPR114 (human) mapping to 16q21.

SOURCE

GPR114 (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of GPR114 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-136694 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GPR114 (G-12) is recommended for detection of GPR114 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); non cross-reactive with other GPR family members.

Suitable for use as control antibody for GPR114 siRNA (h): sc-93302, GPR114 shRNA Plasmid (h): sc-93302-SH and GPR114 shRNA (h) Lentiviral Particles: sc-93302-V.

Molecular Weight of GPR114: 59 kDa.

Positive Controls: Caco-2 cell lysate: sc-2262, K-562 whole cell lysate: sc-2203 or HL-60 whole cell lysate: sc-2209.

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

	А	В	С	D	Е	F	
90 K –							
55 K –							← GPR114
43 K –							
34 K –							

GPR114 (G-12): sc-136694. Western blot analysis of GPR114 expression in Caco-2 (A), K-562 (B), HL-60 (C), HeLa (D), Ca Ski (E) and CCRF-CEM (F) whole cell lysates.

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 or our catalog for detailed protocols and support products.