SANTA CRUZ BIOTECHNOLOGY, INC.

GPR62 (P-15): sc-54818

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

GPR62 (probable G protein-coupled receptor 62, hGPCR8) is a 368 amino acid protein encoded by the human GPR62 gene. GPR62 is an orphan receptor member of the G protein-coupled receptor 1 family. G protein-coupled receptors (GPCRs or GPRs) contain seven transmembrane domains and transduce extracellular signals through heterotrimeric G proteins. Key roles for G protein-coupled receptors include control of protein maturation and cell surface delivery and providing the correct framework for interactions with both heterotrimeric G proteins and arrestins to allow signal generation and its termination. GPR62 is expressed in brain tissue, most notably the basal forebrain, frontal cortex, caudate, putamen, thalamus and hippocampus.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GPR62 (human) mapping to 3p21.2.

SOURCE

GPR62 (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of GPR62 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-54818 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GPR62 (P-15) is recommended for detection of GPR62 of 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).

GPR62 (P-15) is also recommended for detection of GPR62 in additional species, including bovine and porcine.

Suitable for use as control antibody for GPR62 siRNA (h): sc-62399, GPR62 shRNA Plasmid (h): sc-62399-SH and GPR62 shRNA (h) Lentiviral Particles: sc-62399-V.

Molecular Weight of GPR62: 37 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 or our catalog for detailed protocols and support products.