

GPR37L1 (C-12): sc-164532

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. GPR37L1 (GPR 37-like 1), also known as ETBRLP2 (endothelin B receptor-like protein 2), is a 481 amino acid multi-pass membrane protein that belongs to the GPR1 family. Expressed in the central nervous system, GPR37L1 functions as an orphan receptor and is encoded by a gene that maps to human chromosome 1q32.1.

REFERENCES

- Larhammar, D., et al. 1993. The receptor revolution—multiplicity of G-protein-coupled receptors. *Drug Des. Discov.* 9: 179-188.
- Valdenaire, O., et al. 1998. A new family of orphan G protein-coupled receptors predominantly expressed in the brain. *FEBS Lett.* 424: 193-196.
- Ji, T.H., et al. 1998. G protein-coupled receptors. I. Diversity of receptor-ligand interactions. *J. Biol. Chem.* 273: 17299-17302.
- Schöneberg, T., et al. 1999. Structural basis of G protein-coupled receptor function. *Mol. Cell. Endocrinol.* 151: 181-193.
- Lee, D.K., et al. 2001. Discovery and mapping of ten novel G protein-coupled receptor genes. *Gene* 275: 83-91.
- Wittenberger, T., et al. 2001. An expressed sequence tag (EST) data mining strategy succeeding in the discovery of new G-protein coupled receptors. *J. Mol. Biol.* 307: 799-813.

CHROMOSOMAL LOCATION

Genetic locus: GPR37L1 (human) mapping to 1q32.1; Gpr37l1 (mouse) mapping to 1 E4.

SOURCE

GPR37L1 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of GPR37L1 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-164532 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

GPR37L1 (C-12) is recommended for detection of GPR37L1 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); non cross-reactive with other GPR family members.

GPR37L1 (C-12) is also recommended for detection of GPR37L1 in additional species, including equine and canine.

Suitable for use as control antibody for GPR37L1 siRNA (h): sc-88838, GPR37L1 siRNA (m): sc-145733, GPR37L1 shRNA Plasmid (h): sc-88838-SH, GPR37L1 shRNA Plasmid (m): sc-145733-SH, GPR37L1 shRNA (h) Lentiviral Particles: sc-88838-V and GPR37L1 shRNA (m) Lentiviral Particles: sc-145733-V.

Molecular Weight of GPR37L1: 53 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.