



GPR68 (E-19): sc-79622

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. GPR68 (G protein-coupled receptor 68), also known as OGR1 (ovarian cancer G protein-coupled receptor 1), is a 365 amino acid multi-pass membrane protein that is expressed in testis, spleen, lung, brain and placenta. Existing as a member of the G protein-coupled receptor family, GPR68 functions as a high affinity receptor for sphingosylphosphorylcholine and is coupled to G proteins that enhance phosphoinositide hydrolysis.

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CHROMOSOMAL LOCATION

Genetic locus: GPR68 (human) mapping to 14q32.12; Gpr68 (mouse) mapping to 12 E.

SOURCE

GPR68 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of GPR68 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-79622 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GPR68 (E-19) is recommended for detection of GPR68 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).

Suitable for use as control antibody for GPR68 siRNA (h): sc-75185, GPR68 siRNA (m): sc-75186, GPR68 shRNA Plasmid (h): sc-75185-SH, GPR68 shRNA Plasmid (m): sc-75186-SH, GPR68 shRNA (h) Lentiviral Particles: sc-75185-V and GPR68 shRNA (m) Lentiviral Particles: sc-75186-V.

Molecular Weight of GPR68: 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 or our catalog for detailed protocols and support products.