# GPR63 (M-16): sc-55194



The Power to Question

# **BACKGROUND**

GPR63 (probable G protein-coupled receptor 63, PSP24b) is a 419 amino acid protein encoded by the human GPR63 gene. GPR63 is an orphan receptor member of the G protein-coupled receptor 1 family. G protein-coupled receptors (GPCRs, or GPRs) contain 7 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 hetero-trimeric G proteins and arrestins to allow signal generation and its termination. GPR63 is expressed in brain tissue, most notably frontal cortex, with lower levels in the thalamus, caudate, hypothalamus and midbrain.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: Gpr63 (mouse) mapping to 4 A3.

# SOURCE

GPR63 (M-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of GPR63 of mouse origin.

# **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-55194 P, (100  $\mu g$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

GPR63 (M-16) is recommended for detection of GPR63 of mouse 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).

GPR63 (M-16) is also recommended for detection of GPR63 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for GPR63 siRNA (m): sc-62402, GPR63 shRNA Plasmid (m): sc-62402-SH and GPR63 shRNA (m) Lentiviral Particles: sc-62402-V.

Molecular Weight of GPR63: 48 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.

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