mGluR-4 (B-8): sc-376485

**BACKGROUND**

The mGluR proteins (metabotropic glutamate receptors) are members of the G protein-coupled receptor family and are functionally and pharmacologically distinct from the GluR proteins (ionotropic glutamate receptors). The eight currently known mGluR proteins are mediated by two G proteins with opposing regulation of adenylate cyclase pathways. The activities of mGluR-1 and mGluR-5 are mediated by a G protein that activates a phosphatidylinositol-calciium second messenger system and generates a calcium-activated chloride current. The remainder of the eight subtypes of mGluR have an activity mediated by a G protein that inhibits adenylate cyclase activity. mGluR-4, which can interact with PKCαβ, acts as a receptor for glutamate. It is highly expressed in cerebellum.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: GRM4 (human) mapping to 6p21.31; Grm4 (mouse) mapping to 17 A3.3.

**SOURCE**

mGluR-4 (B-8) is a mouse monoclonal antibody raised against amino acids 384-403 mapping within an internal region of mGluR-4 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

mGluR-4 (B-8) is recommended for detection of mGluR-4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

mGluR-4 (B-8) is also recommended for detection of mGluR-4 in additional species, including bovine and porcine.

Suitable for use as control antibody for mGluR-4 siRNA (h): sc-61032, mGluR-4 siRNA (m): sc-61033, mGluR-4 shRNA Plasmid (h): sc-61032-SH, mGluR-4 shRNA Plasmid (m): sc-61033-SH, mGluR-4 shRNA (h) Lentiviral Particles: sc-61032-V and mGluR-4 shRNA (m) Lentiviral Particles: sc-61033-V.

Molecular Weight of mGluR-4: 110 kDa.

Positive Controls: rat cerebellum extract: sc-2398 or mouse brain extract: sc-2253.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

mGluR-4 (B-8): sc-376485. Western blot analysis of mGluR-4 expression in rat cerebellum tissue extract.

mGluR-4 (B-8): sc-376485. Western blot analysis of mGluR-4 expression in mouse brain tissue extract.

**SELECT PRODUCT CITATIONS**


**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 for detailed protocols and support products.