**BACKGROUND**

Heterotrimeric G proteins function to relay information from cell surface receptors to intracellular effectors. Each of a very broad range of receptors specifically detects an extracellular stimulus (i.e. a photon, pheromone, odorant, hormone or neurotransmitter), while the effectors (e.g. adenyl cyclase), which act to generate one or more intracellular messengers, are less numerous. In mammals, G protein subunits, since these proteins bind and hydrolyze GTP and most obviously regulate the activity of the best studied effectors. Evidence, however, has established an important regulatory role for the βγ subunits. The G protein β subunits are important regulators of G protein α subunits as well as of certain signal transduction receptors and effectors. In mammals, there are five different members of the β subunit family.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: GNB4 (human) mapping to 3q26.32; Gnb4 (mouse) mapping to 10p15.5. Genetic locus: GNB1 (human) mapping to 10q25.3.

**SOURCE**

Gβ (M-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a conserved domain at the N-terminus of Gβ1 of bovine 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-261 P (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as agarose conjugate for immunoprecipitation, sc-261 AC, 500 μg/0.25 ml agarose in 1 ml.

**STORAGE**

Store at 4°C, **“DO NOT FREEZE”**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

Gβ (M-14) is recommended for detection of Gβ1, Gβ2, Gβ3 and Gβ4 of mouse, rat, human and bovine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1–2 μg per 100–500 μg of total protein (1 ml of cell lysate)) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:150).

Molecular Weight of Gβ: 36 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, SK-N-SH cell lysate: sc-2410 or bovine brain extract.

**DATA**

Western blot analysis of Gβ expression in bovine brain extract (A), Gβ and Jurkat (B) whole cell lysate. Antigen tested include Gβ (M-14): sc-261 (A) and Gβ (T-20): sc-378 (B, C).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

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