**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 (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, 4 protein α, β and γ polypeptides are encoded by at least 16, 4 and 7 genes, respectively. Most interest in G proteins has been focused on their α subunits, since these proteins bind and hydrolyze GTP and most obviously regulate the activity of the best studied effectors. Four distinct classes of Gα subunits have been identified; these include Gq, G11, G12/13, and Gq/11. Two of which, Gα11 and Gα12, are abundant in brain and lung and present at lower levels in a variety of tissues.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: GNA11 (human) mapping to 19p13.3; Gna11 (mouse) mapping to 10C1.

**SOURCE**

Gα11 (D-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 3-39 within the N-terminus of Gα11 of mouse origin.

**PRODUCT**

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

Gα11 (D-6) is available conjugated to agarose (sc-390382 AC), 500 µg/0.25 ml agarose in 1 ml for IP; to HRP (sc-390382 HRP), 200 µg/ml, for WB, IHC/P and ELISA; to either phycoerythrin (sc-390382 PE), fluorescein (sc-390382 FITC), Alexa Fluor® 488 (sc-390382 AF488), Alexa Fluor® 546 (sc-390382 AF546), Alexa Fluor® 594 (sc-390382 AF594) or Alexa Fluor® 647 (sc-390382 AF647), 200 µg/ml, for WB (RGB), IF, IHC/P and FCM; and to either Alexa Fluor® 680 (sc-390382 AF680) or Alexa Fluor® 790 (sc-390382 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390382 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**STORAGE**

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

**APPLICATIONS**

Gα11 (D-6) is recommended for detection of Gα11 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 1:50-1:1500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of Gα11: 45 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, DU 145 cell lysate: sc-2268 or U-251-MG whole cell lysate: sc-364176.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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