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G α 13 (m): 293T Lysate: sc-125358

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 (i.e. adenylyl cyclase), which act to generate one or more intracellular messengers, are less numerous. In mammals, G 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 G α subunits have been identified; these include G α_s , G α_i , G α_q and G $\alpha_{12/13}$. The two members of the fourth class of G α subunit proteins, G α_{12} and G α_{13} , have predicted molecular weights of 44 kDa, are insensitive to ADP-ribosylation by pertussis toxin, share 67% identity with each other and less than 45% identity with other G α subunits and are widely expressed in a broad range of tissues.

REFERENCES

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6. Bulle, F., Mattei, M.G., Siegrist, S., Pawlak, A., Passage, E., Chobert, M.N., Laperche, Y. and Guellaen, G. 1987. Assignment of the human γ -glutamyl transferase gene to the long arm of chromosome 22. *Hum. Genet.* 76: 283-286.

CHROMOSOMAL LOCATION

Genetic locus: Gna13 (mouse) mapping to 11 E1.

PRODUCT

G α 13 (m): 293T Lysate represents a lysate of mouse G α 13 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

G α 13 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive G α 13 antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.