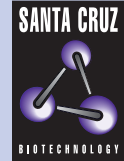


G_γ3 (K-20): sc-375



The Power to Question

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., 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. Evidence, however, has established an important regulatory role for the $\beta\gamma$ subunits. It is becoming increasingly clear that different G protein complexes expressed in different tissues carry structurally distinct members of the γ , as well as the α and β , subunits and that preferential associations between members of subunit families increase G protein functional diversity.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GNG3 (human) mapping to 11p11; Gng3 (mouse) mapping to 19 A.

SOURCE

G_γ3 (K-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of G_γ3 of bovine origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-375 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

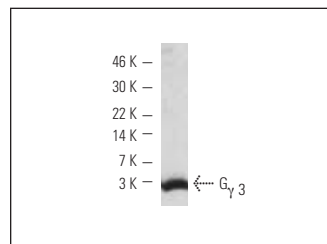
G_γ3 (K-20) is recommended for detection of G_γ3 of broad origin by Western blotting, immunoprecipitation [1–2 μ g per 100–500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for G_γ3 siRNA (h): sc-41776 and G_γ3 siRNA (m): sc-41777.

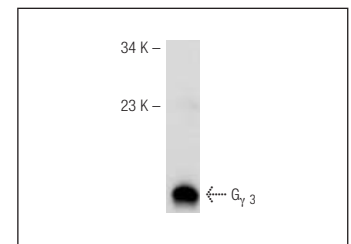
Molecular Weight of G_γ3: 3-7 kDa.

Positive Controls: mouse cerebellum extract: sc-2403 or rat brain extract: sc-2392.

DATA



G_γ3 (K-20): sc-375. Western blot analysis of G_γ3 expression in rat brain extract.



G_γ3 (K-20): sc-375. Western blot analysis of G_γ3 expression in mouse brain tissue extract.

SELECT PRODUCT CITATIONS

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