groucho (dE-21): sc-15785



The Power to Question

BACKGROUND

Drosophila melanogaster is a proven and effective model for studying developmental and cellular processes common to higher eukaryotes. Approximately 13,600 genes have been elucidated from more than 120 megabases of euchromatin, and they are organized among the chromosomes 2, 3, 4, X and Y, with the Y chromosome being predominately heterochromatic. Drosophila genes can be categorized based on the type of protein they encode and are represented by six major classifications, which include intracellular signaling proteins, transmembrane proteins, RNA binding proteins, secreted factors, transcription regulators (basic helix-loop-helix, homeodomain containing, zinc finger containing and chromatin associated) or other functional proteins. Among these numerous proteins, groucho (dGro, gro), a component of the Enhancer of split complex (E[spl]-C), is a neurogenic transcription factor in Drosophila.

REFERENCES

- Adams, M.D., et al. 2000. The genome sequence of *Drosophila melano-gaster*. Science 287: 2185-2195.
- Chen, G., et al. 2000. Groucho/TLE family proteins and transcriptional repression. Gene 249: 1-16.
- 3. Hader, T., et al. 2000. Receptor tyrosine kinase signaling regulates different modes of groucho-dependent control of Dorsal. Curr. Biol. 10: 51-54.
- Andrioli, L.P., et al. 2004. Groucho-dependent repression by sloppy-paired 1 differentially positions anterior pair-rule stripes in the *Drosophila* embryo. Dev. Biol. 276: 541-551
- Choi, C.Y, et al. 2005. Phosphorylation by the DHIPK2 protein kinase modulates the corepressor activity of groucho. J. Biol. Chem. 280: 21427-21436.
- 6. The Interactive Fly. http://www.sdbonline.org/fly/aimain/1aahome.htm. http://www.sdbonline.org/fly/neural/groucho.htm
- 7. LocusLink Report. http://www.ncbi.nlm.nih.gov/LocusLink/ (LocusID: 43162).

SOURCE

groucho (dE-21) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of groucho of *Drosophila melanogaster* origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-15785 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.

PROTOCOLS

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

APPLICATIONS

groucho (dE-21) is recommended for detection of groucho of *Drosophila melanogaster* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Positive Controls: Schneider's Drosophila line 2.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluores-cence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com