# APPL (dR-14): sc-26715



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 for which 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. The Drosophila APPL gene encodes a transmembrane protein similar to human beta-amyloid precursor protein (APP) (3-5). APPL protein is exclusive to neurons.

## **REFERENCES**

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- Torroja, L., Luo, L., and White, K. 1996. APPL, the *Drosophila* member of the APP-family, exhibits differential trafficking and processing in CNS neurons. J. Neurosci. 16: 4638-4650.
- Torroja, L., Chu, H., Kotovsky, I., and White, K. 1999. Neuronal overexpression of APPL, the *Drosophila* homologue of the amyloid precursor protein (APP), disrupts axonal transport. Curr. Biol. 9: 489-492.
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- Society for Developmental Biology. 2003. The Interactive Fly. http://sdb. bio.purdue.edu/fly/aimain/1aahome.htm

#### SOURCE

APPL (dR-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of APPL of *Drosophila melanogaster* origin.

## **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-26715 P, (100  $\mu$ 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**

APPL (dR-14) is recommended for detection of amyloid precursor protein-like (APPL) of *Drosophila melanogaster*origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

# **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) Immunofluorescence: 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.

## **PROTOCOLS**

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

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