



AP-3 δ 1 (K-20): sc-49154

BACKGROUND

Adaptins are heterotetrameric subunits of adaptors, which are complexes involved in the formation of clathrin-coated pits for vesicle-mediated endocytosis. Clathrin and its associated heterotetrameric protein complexes make up the main protein components of the coat surrounding the cytoplasmic face of coated vesicles. The adaptin family, comprising α , β , β' , and γ classes, is also responsible for the transport of ligand-receptor complexes from plasma membranes and the *trans*-Golgi network (TGN) to lysosomes. AP-3 specifically directs the transport of transmembrane cargo from the TGN to the vacuole in yeast, and to lysosomes and specialized secretory lysosome-type compartments that include melanosomes and platelets in mammals. The δ subunit of AP-3 (AP-3 δ 1) binds to vesicular stomatitis virus glycoprotein (VSV-G) and delivers it from the TGN to cell surfaces to facilitate the formation of a viral coat at the cell surface.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AP3D1 (human) mapping to 19p13.3; Ap3d1 (mouse) mapping to 10 C1.

SOURCE

AP-3 δ 1 (K-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of AP-3 δ 1 of human 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-49154 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AP-3 δ 1 (K-20) is recommended for detection of AP-3 δ 1 of mouse, rat and human 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).

AP-3 δ 1 (K-20) is also recommended for detection of AP-3 δ 1 in additional species, including equine, canine, bovine and porcine.

Molecular Weight of AP-3 δ 1: 130 kDa.

Positive Controls: Caki-1 cell lysate: sc-2224, Hep G2 cell lysate: sc-2227 or H4 cell lysate: sc-2408.

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.

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.

PROTOCOLS

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