

AAK1 (C-15): sc-130105

BACKGROUND

Adaptor-related protein complex 2 (AP-2 complexes) operates during receptor-mediated endocytosis to initiate clathrin assembly, associates with membrane-bound receptors and mobilizes endocytic accessory factors. AAK1 (AP2 associated kinase 1), also known as adaptor-associated kinase 1, is a 961 amino acid protein belonging to the protein kinase superfamily and the serine/threonine protein kinase family. Encoded by a gene that maps to human chromosome 2p13.3, AAK1 participates in ATP and nucleotide binding, protein serine/threonine kinase functions and transferase activity. AAK1 phosphorylates a subunit of the AP-2 complex, which leads to binding of AP-2 to sorting signals in membrane-bound receptors, resulting in receptor endocytosis. AAK1 contains one protein kinase domain, with kinase activity stimulated by clathrin, and exists as two alternatively spliced isoforms.

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CHROMOSOMAL LOCATION

Genetic locus: AAK1 (human) mapping to 2p13.3; Aak1 (mouse) mapping to 6 D1.

SOURCE

AAK1 (C-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of AAK1 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin, 6% glycerol, 0.1% BSA and 0.002% thimerosal.

APPLICATIONS

AAK1 (C-15) is recommended for detection of AAK1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for AAK1 siRNA (h): sc-94850, AAK1 siRNA (m): sc-140731, AAK1 shRNA Plasmid (h): sc-94850-SH, AAK1 shRNA Plasmid (m): sc-140731-SH, AAK1 shRNA (h) Lentiviral Particles: sc-94850-V and AAK1 shRNA (m) Lentiviral Particles: sc-140731-V.

Molecular Weight of AAK1: 104 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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.

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.


 MONOS
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Try **AAK1 (LW-M11): sc-134242**, our highly recommended monoclonal alternative to AAK1 (C-15).