

AP-3 β (h): 293T Lysate: sc-114819

BACKGROUND

The widely expressed adaptor-like complex AP-3 is involved in protein sorting in exocytic/endocytic pathways and is composed of four distinct subunits. One of these subunits, AP-3 β , also known as β 3A-Adaptin, is closely related to the neuron-specific protein β -NAP and shares 61% overall identity. β -NAP (also known as β -3B-Adaptin) is a homolog of the β / β' -Adaptins. β -NAP is related to one of the adaptor subunits of Clathrin-coated vesicles and is also part of an adaptor-like complex which is not associated with Clathrin. Casein kinase I selectively phosphorylates the AP-3 β and β -NAP subunits at its hinge domain; inhibiting the kinase hinders the recruitment of AP-3 to synaptic vesicles.

REFERENCES

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3. Dell'Angelica, E.C., Ohno, H., Ooi, C.E., Rabinovich, E., Roche, K.W. and Bonifacino, J.S. 1997. AP-3: an adaptor-like protein complex with ubiquitous expression. *EMBO J.* 16: 917-928.
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6. Mullins, C., Hartnell, L.M. and Bonifacino, J.S. 2000. Distinct requirements for the AP-3 adaptor complex in pigment granule and synaptic vesicle biogenesis in *Drosophila melanogaster*. *Mol. Gen. Genet.* 263: 1003-1014.
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CHROMOSOMAL LOCATION

Genetic locus: AP3B1 (human) mapping to 5q14.1.

PRODUCT

AP-3 β (h): 293T Lysate represents a lysate of human AP-3 β transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

APPLICATIONS

AP-3 β (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive AP-3 β antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PROTOCOLS

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