

Fe65 (m): 293T Lysate: sc-126844

BACKGROUND

γ -secretase cleaves the cell surface protein amyloid protein precursor (APP) at the transmembrane region into an extracellular peptide (β -Amyloid) and an intracellular tail fragment. The cytoplasmic tail of APP forms a multimeric complex with Fe65 (also known as APBB1 for APP binding protein family B member 1). Specifically, Fe65 binds the YENPTY sequence in the cytoplasmic tail of APP. Fe65 is a nuclear adaptor protein widely expressed in the brain, including hippocampus and isocortex. In the cell, Fe65 and APP co-localize to the ER and Golgi. The interaction between APP and Fe65 increases the translocation of APP to the cell surface and the subsequent secretion of β -Amyloid. Fe65 and APP localize with Mena, a cell-adhesion protein, and Fe65 regulates APP-dependent changes in cell motility. The gene encoding human Fe65 maps to chromosome 11p15.

REFERENCES

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4. Guenette, S.Y., et al. 1999. hFE65L influences amyloid precursor protein maturation and secretion. *J. Neurochem.* 73: 985-993.
5. Sabo, S.L., et al. 1999. Regulation of β -Amyloid secretion by Fe65, an amyloid protein precursor-binding protein. *J. Biol. Chem.* 274: 7952-7957.
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CHROMOSOMAL LOCATION

Genetic locus: Apbb1 (mouse) mapping to 7 E3.

PRODUCT

Fe65 (m): 293T Lysate represents a lysate of mouse Fe65 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

Fe65 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Fe65 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.

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.

PROTOCOLS

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