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p55 (h2): 293T Lysate: sc-175147

BACKGROUND

P55 is an extensively palmitoylated erythrocyte membrane protein and a member of the MAGUK family. P55 also resists salt extraction, resulting in a high affinity for the plasma membrane. P55 contains a PDZ/DHR domain, a conserved SH-3 domain that appears to suppress tyrosine kinase activity of various oncoproteins, a 39-amino acid motif that binds to cytoskeletal protein 4.1R and a guanylate kinase-like domain. Interaction with glycoprotein C (GPC) and 4.1R suggests that p55 may play a role in the dynamic regulation in the erythrocyte membrane. In addition, p55 gene expression *in vivo* may be associated with a CpG island. P55 is constitutively expressed in K-562 erythroleukemia cells during erythropoiesis and undergoes a 2-fold amplification after induction.

REFERENCES

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5. Nunomrua, W., Takakuwa, Y., Parra, M., Conboy, J. and Mohandas, N. 2000. Regulation of protein 4.1R, p55, and glycoprotein C ternary complex in human erythrocyte membrane. *J. Biol. Chem.* 275: 24540-24546.

CHROMOSOMAL LOCATION

Genetic locus: MPP1 (human) mapping to Xq28.

PRODUCT

p55 (h2): 293T Lysate represents a lysate of human p55 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

p55 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive p55 antibodies. Recommended use: 10-20 µl 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 for detailed protocols and support products.