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SANTA CRUZ BIOTECHNOLOGY, INC.

VIP36 (m): 293T Lysate: sc-124567

BACKGROUND

Lectin mannose-binding 1, also designated vesicular integral-membrane protein (VIP36) and lectin mannose-binding 2, also designated ERGIC-53 comprise a family of membrane bound, ubiquitous proteins involved in the selective transport of newly synthesized glycoproteins from the endoplasmic reticulum (ER) to the ER-Golgi intermediate compartment (ERGIC). VIP36 acts as an intracellular lectin in the early secretory pathway. It is involved in the sorting and transport of glycoproteins carrying high mannose-type glycans. ERGIC-53, a mannose-specific lectin, recognizes sugar residues of glycoproteins and glycolipids. It mediates the sorting and recycling of proteins and/or lipids. Null expression of ERGIC-53, also designated LMAN1, results in a rare autosomal recessive bleeding disorder that causes combined deficiency of both coagulation factors V and VIII.

REFERENCES

1. Schindler, R., et al. 1993. ERGIC-53, a membrane protein of the ER-Golgi intermediate compartment, carries an ER retention motif. Eur. J. Cell Biol. 61: 1-9.
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3. Hauri, H.P., et al. 2002. Lectins and protein traffic early in the secretory pathway. Biochem. Soc. Symp. 69: 73-82.
4. Cunningham, M.A., et al. 2003. LMAN1 is a molecular chaperone for the secretion of coagulation factor VIII. J. Thromb. Haemost. 1: 2360-2367.
5. Hara-Kuge, S., et al. 2004. The binding of VIP36 and α-Amylase in the secretory vesicles via high-mannose type glycans. Glycobiology 14: 739-744.
6. Kamiya, Y., et al. 2005. Sugar-binding properties of VIP36, an intracellular animal lectin operating as a cargo receptor. J. Biol. Chem. 280: 37178-37182.
7. Neve, E.P., et al. 2005. Oligomerization and interacellular localization of the glycoprotein receptor ERGIC-53 is independent of disulfide bonds. J. Mol. Biol. 354: 556-568.

CHROMOSOMAL LOCATION

Genetic locus: Lman2 (mouse) mapping to 13 B1.

PRODUCT

VIP36 (m): 293T Lysate represents a lysate of mouse VIP36 transfected 293T cells and is provided as 100 µg protein in 200 µl 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.

PROTOCOLS

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

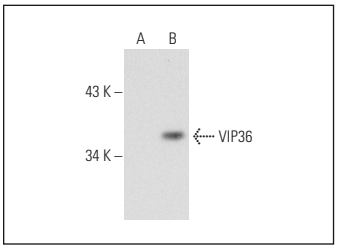
APPLICATIONS

VIP36 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive VIP36 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.

VIP36 (264C4a): sc-130026 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse VIP36 expression in VIP36 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



VIP36 (264C4a): sc-130026. Western blot analysis of VIP36 expression in non-transfected: sc-117752 (**A**) and mouse VIP36 transfected: sc-124567 (**B**) 293T whole cell lysates.

RESEARCH USE

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