

PLEKHG6 (m): 293T Lysate: sc-122635

BACKGROUND

PLEKHG6 (pleckstrin homology domain containing, family G (with RhoGef domain) member 6), also known as MyoGEF (Myosin-interacting guanine nucleotide exchange factor), is a 790 amino acid protein that contains one DH (DBL-homology) domain and one PH (pleckstrin homology) domain. Existing as three alternatively spliced isoforms, PLEKHG6 is highly expressed in placenta, with lower levels in small intestine, lung, liver, kidney, thymus and heart. PLEKHG6 interacts directly with non-muscle myosin II, both of which colocalize to cleavage furrows of early anaphase cells. PLEKHG6 also activates Rho A and induces formation of myosin filaments. Exhibiting preferential GEF activity to Rho G, PLEKHG6 forms a complex with Rho G, the Rho G effector ELMO and Ezrin. PLEKHG6 and Ezrin together induce ruffles at cell membranes and are vital for macropinocytosis. Disruption of PLEKHG6 expression results in multinucleated cells. The gene that encodes PLEKHG6 maps to human chromosome 12p13.31.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Plekhg6 (mouse) mapping to 6 F3.

PRODUCT

PLEKHG6 (m): 293T Lysate represents a lysate of mouse PLEKHG6 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

PLEKHG6 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PLEKHG6 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.

PROTOCOLS

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