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μ-protocadherin (m): 293T Lysate: sc-127848

BACKGROUND

The mucin-like protocadherin, μ-protocadherin, is a developmentally regulated, single-pass type I transmembrane protein that belongs to the cadherin superfamily. It contains four cadherin-like ectodomains, a triply repeating mucin domain, four SH3 binding regions, N- and O-glycosylation sites and a possible C-terminal PDZ binding domain. μ-protocadherin is expressed in various epithelial tissues and localizes to the apical surface along the brush border of the proximal convoluted tubule. It acts as a calcium-dependent cell adhesion molecule mediating cell aggregation and may play a role in the activation of signaling events. Due to alternative splicing at least four isoforms exist for μ-protocadherin. These isoforms vary in the region containing the mucin-like domains. Only the longest isoform contains the triply repeating mucin domain.

REFERENCES

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- Moulton, D.E., Crandall, W., Lakhani, R. and Lowe, M.E. 2004. Expression of a novel cadherin in the mouse and human intestine. *Pediatr. Res.* 55: 927-934.

CHROMOSOMAL LOCATION

Genetic locus: Mucdhl (mouse) mapping to 7 F5.

PRODUCT

μ-protocadherin (m): 293T Lysate represents a lysate of mouse μ-protocadherin 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.

RESEARCH USE

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

APPLICATIONS

μ-protocadherin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive μ-protocadherin antibodies. Recommended use: 10-20 μl per lane.

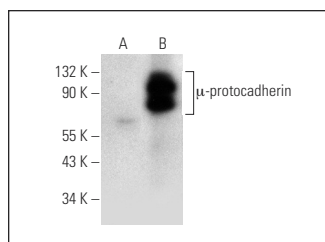
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

μ-protocadherin (G-10): sc-398841 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse m-protocadherin expression in m-protocadherin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



μ-protocadherin (G-10): sc-398841. Western blot analysis of μ-protocadherin expression in non-transfected: sc-117752 (A) and mouse μ-protocadherin transfected: sc-127848 (B) 293T whole cell lysates.

PROTOCOLS

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