

# μ-protocadherin (h): 293T Lysate: sc-112145

## 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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## CHROMOSOMAL LOCATION

Genetic locus: CDHR5 (human) mapping to 11p15.5.

## RESEARCH USE

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

## PRODUCT

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

## APPLICATIONS

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

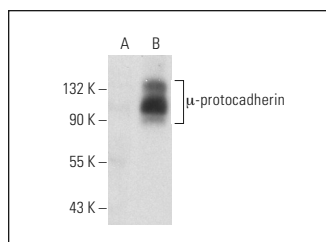
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

μ-protocadherin (A-11): sc-166953 is recommended as a positive control antibody for Western Blot analysis of enhanced human μ-protocadherin expression in μ-protocadherin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

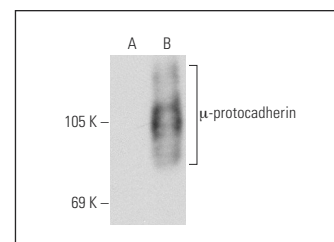
## RECOMMENDED SUPPORT REAGENTS

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 (A-11): sc-166953. Western blot analysis of μ-protocadherin expression in non-transfected: sc-117752 (A) and human μ-protocadherin transfected: sc-112145 (B) 293T whole cell lysates.



μ-protocadherin (G-1): sc-271138. Western blot analysis of μ-protocadherin expression in non-transfected: sc-117752 (A) and human μ-protocadherin transfected: sc-112145 (B) 293T whole cell lysates.

## 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](http://www.scbt.com) for detailed protocols and support products.