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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Mucin 15 (m): 293T Lysate: sc-127174

BACKGROUND

The mucins are a family of highly glycosylated, secreted proteins with a basic structure consisting of a variable number of tandem repeats (VNTRs). Membrane-associated and secretory mucins are high molecular weight glycoproteins of the glycocalyx (polysaccharide biofilm) that protects mucosal epithelium from particulate matter and microorganisms. Epithelial mucins are large, secreted and cell surface glycoproteins crucial for adhesion modulation, signaling and epithelial cell protection. The number of repeats is highly polymorphic and varies among different alleles. The mucin family consists of Mucins 1-4, Mucin-5 (AC and B), Mucins 6-8, -11, -12, -13, -15, -16 and 17. Mucin-15 is involved in cell adhesion to the extracellular matrix. It is primarily expressed in prostate, testis, lung, spleen, thymus, ovary, small intestine, colon, bone marrow, lymph node, lung and peripheral blood leukocytes. Mucin-15 is a highly glycosylated protein.

REFERENCES

1. Lan, M.S., et al. 1990. Cloning and sequencing of a human pancreatic tumor mucin cDNA. *J. Biol. Chem.* 265: 15294-15299.
2. Moniaux, N., et al. 2001. Structural organization and classification of the human mucin genes. *Front. Biosci.* 6: D1192-D1206.
3. Leikauf, G.D., et al. 2002. Mucin apoprotein expression in COPD. *Chest* 121: 166S-182S.
4. Pallesen, L.T., et al. 2002. Isolation and characterization of MUC15, a novel cell membrane-associated mucin. *Eur. J. Biochem.* 269: 2755-2763.
5. Byrd, J.C., et al. 2004. Mucins and mucin binding proteins in colorectal cancer. *Cancer Metastasis Rev.* 23: 77-99.

CHROMOSOMAL LOCATION

Genetic locus: Muc15 (mouse) mapping to 2 E3.

PRODUCT

Mucin 15 (m): 293T Lysate represents a lysate of mouse Mucin 15 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

Mucin 15 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Mucin 15 antibodies. Recommended use: 10-20 µl per lane.

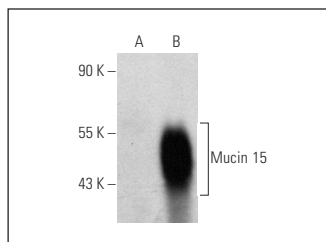
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Mucin 15 (H-5): sc-365746 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Mucin 15 expression in Mucin 15 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



Mucin 15 (H-5): sc-365746. Western blot analysis of Mucin 15 expression in non-transfected: sc-117752 (A) and mouse Mucin 15 transfected: sc-127174 (B) 293T whole cell lysates.

PROTOCOLS

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