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# Cytokeratin 7 (m): 293T Lysate: sc-119621

## BACKGROUND

Cytokeratins comprise a diverse group of intermediate filament proteins (IFPs) that are expressed as pairs in both keratinized and non-keratinized epithelial tissue, where they constitute up to 85% of mature keratinocytes in the vertebrate epidermis. Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells. The  $\alpha$ -helical coiled-coil dimers associate laterally end-to-end to form 10 nm diameter filaments. Cytokeratins are useful markers of tissue differentiation and, in addition, they aid in the characterization of malignant tumors. Cytokeratin 7 (also known as sarcolectin) agglutinates normal and transformed cells with a high affinity for simple sugars. Cytokeratin 7 also inhibits the synthesis of interferon-dependent secondary proteins thus reversing the antiviral effect of interferon induction and restoring cells to their status ad primum. In normal and transformed cells, Cytokeratin 7 localizes to the membrane.

## REFERENCES

1. Moll, R., Franke, W.W., Schiller, D.L., Geiger, B. and Krepler, R. 1982. The catalog of human cytokeratins: patterns of expression in normal epithelia, tumors and cultured cells. *Cell* 31: 11-24.
2. Lane, E.B., Bartek, J., Purkis, P.E. and Leigh, I.M. 1985. Keratin antigens in differentiating skin. *Ann. N.Y. Acad. Sci.* 455: 241-258.
3. Osborn, M., van Lessen, G., Weber, K., Kloppel, G. and Altmannsberger, M. 1986. Differential diagnosis of gastrointestinal carcinomas by using monoclonal antibodies specific for individual keratin polypeptides. *Lab. Invest.* 55: 497-504.
4. Vojtesek, B., Staskova, Z., Nenutil, R., Bartkova, J., Kovarik, J., Rejthar, A. and Bartek, J. 1990. A panel of monoclonal antibodies to keratin no. 7: characterization and value in tumor diagnosis. *Neoplasma* 37: 333-342.
5. Ramaekers, F., van Niekerk, C., Poels, L., Schaafsma, E., Huijsmans, A., Robben, H., Schaart, G. and Vooijs, P. 1990. Use of monoclonal antibodies to keratin 7 in the differential diagnosis of adenocarcinomas. *Am. J. Pathol.* 136: 641-655.
6. Markey, A.C., Lane, E.B., Churchill, L.J., MacDonald, D.M. and Leigh, I.M. 1991. Expression of simple epithelial keratins 8 and 18 in epidermal neoplasia. *J. Invest. Dermatol.* 97: 763-770.
7. Bartek, J., Vojtesek, B., Staskova, Z., Bartkova, J., Kerekes, Z., Rejthar, A. and Kovarik, J. 1991. A series of 14 new monoclonal antibodies to keratins: characterization and value in diagnostic histopathology. *J. Pathol.* 164: 215-224.
8. van Niekerk, C.C., Jap, P.H., Ramaekers, F.C., van de Molengraft, F. and Poels, L.G. 1991. Immunohistochemical demonstration of keratin 7 in routinely fixed paraffin-embedded human tissues. *J. Pathol.* 165: 145-152.
9. Fuchs, E. 1995. Keratins and the skin. *Annu. Rev. Cell Dev. Biol.* 11: 123-153.

## 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.

## CHROMOSOMAL LOCATION

Genetic locus: Krt7 (mouse) mapping to 15 F2.

## PRODUCT

Cytokeratin 7 (m): 293T Lysate represents a lysate of mouse Cytokeratin 7 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

Cytokeratin 7 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Cytokeratin 7 antibodies. Recommended use: 10-20  $\mu$ l per lane.

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

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.