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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) 



Mouse anti Cytokeratin 6 / Keratin K6

Catalogue number: **MUB0350P**

Clone	LL020
Isotype	IgM
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human Zebrafish

Background

Cytokeratins are a subfamily of intermediate filament proteins and are characterized by a remarkable biochemical diversity, represented in epithelial tissues by at least 20 different polypeptides. They range in molecular weight between 40 kDa and 68 kDa and isoelectric pH between 4.9 – 7.8. The individual Cytokeratin polypeptides are numbered 1 to 20. The various epithelia in the Human body usually express Cytokeratins which are not only characteristic of the type of epithelium, but also related to the degree of maturation or differentiation within an epithelium. Cytokeratin subtype expression patterns are used to an increasing extent in the distinction of different types of epithelial malignancies. The Cytokeratin antibodies are not only of assistance in the differential diagnosis of tumors using immunohistochemistry on tissue sections, but are also a useful tool in cytopathology and flow cytometric assays.

Source

LL020 is a Mouse monoclonal IgM antibody derived by fusion of SP2/0-Ag14 murine myeloma cells with spleen cells from a Mouse immunized with a carboxyterminal peptide of Cytokeratin 6.

Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

LL020 can be used as a proliferation marker in hyperproliferative malignant tissue, such as squamous cell carcinoma of the lung. LL020 is suitable for immunoblotting and for immunohistochemistry on frozen tissue and paraffin embedded tissue. Optimal antibody dilution should be determined by

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titration.

Specificity

Keratin 6 is specifically found in hyperproliferative squamous epithelium such as psoriatic lesions and squamous cell carcinomas, e.g. of the lung. It is expressed in suprabasal Keratinocytes of wounded epidermis, a situation of high cell turnover. LL020 reacts with the basal and suprabasal layers of the entire outer root sheath in normal skin.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

1. Markey, A.C., Lane, E.B., Macdonald, D.M., Leigh, I.M. (1992). Keratin expression in basal cell carcinomas. *Br. J. Dermatol.* 126, 154-160.
2. Hughes, B.R., Morris, C., Cunliffe, W.J., Leigh, I.M. (2008). Keratin expression in pilosebaceous epithelia in truncal skin of acne patients. *Br. J. Dermatol.* 134, 247-56.
3. Van der Velden, L.A., Schaafsma, H.E., Ramaekers, F.C. and Kuijpers, W. (1993). Cytokeratin expression in normal and (pre)malignant head and neck epithelia: an overview. *Head Neck* 15, 133-46.
4. Poschmann, G., Sitek, B., Sipos, B., Ulrich, A., Wiese, S., Stephan, C., Warscheid, B., Klöppel, G., Vander Borgh, A., Ramaekers, F.C.S., Meyer, E. and Stühler, K. (2009). Identification of proteomic differences between squamous cell carcinoma of the lung and bronchial epithelium. *Molecular & Cellular proteomics* 8, 1105-16.

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.