



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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## Mouse anti Cytokeratin 16 / Keratin K16

Catalogue number: **MUB0351P**

Clone	LL025
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human
Application	Immunoblotting Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

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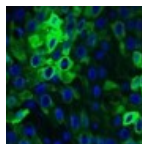
### Background

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

LL025 is a Mouse monoclonal IgG1 antibody derived by fusion of SP2/0-Ag14 murine myeloma cells with spleen cells from a Mouse immunized with a synthetic peptide corresponding to an amino acid sequence of the carboxyl terminus of Human Keratin 16.

Figure 1  
Immunohistochemistry  
on frozen section of  
human oesophagus



**Product**

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

**Applications**

LL025 is suitable for immunoblotting (Western blot) and for immunohistochemistry on frozen tissue and paraffin embedded material.

Optimal antibody dilution should be determined by titration; 1:25 – 1:50 for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent. For use in paraffin embedded tissue sections high pressure retrieval at pH 8,0 is recommended.

**Specificity**

Keratin 16 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. LL025 reactivity is negative in, e.g. normal skin, breast and lung tissue and non-invasive breast carcinoma. However, 10% of the invasive breast carcinomas tested were diffusely or focally positive with this antibody.

**Storage**

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

**References**

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2. Porter, R.M., Lunny, D.P., Ogden, P.H., Morley, S.M., McLean, W.H., Evans, A., Harrison, D.L., Rugg, E.L., Lane, E.B. (2000). K15 expression implies lateral differentiation within stratified epithelial basal cells. *Lab Invest.* 80, 1701-10.
3. Ahenkorah, A., Hottor, B., Byrne, S., Bosio, P. and Ockleford, C.D. (2008). Immunofluorescence confocal laser scanning microscopy and immuno-electron microscopic identification of Keratins in Human maternal-foetal interaction zone. *J. Cell. Mol. Med.* 13, 735-48.
4. van Lingen, R.G., Poll, M.K.P., Seyger, M.M.B., de Jong, E.M.G.J., van de Kerkhof, P.C.M., van Erp, P.E.J. (2008). Distribution of peptidyl-peptidase IV on Keratinocytes in the margin zone of a psoriatic lesion: a comparison with

hyperproliferation and aberrant differentiation markers. Arch Dermatol Res 300, 561-67.

5. 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.