



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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**Keratin 13 & 10. Mouse Monoclonal Antibody**

**BACKGROUND**

Cytokeratins (CK) are intermediate filaments of epithelial cells, both in keratinizing tissue (ie., skin) and non-keratinizing cells (ie., mesothelial cells). Although not a traditional marker for endothelial cells, cytokeratins have also been found in some microvascular endothelial cells. At least 20 different cytokeratins (CK) in the molecular range of 40-70 kDa and isoelectric points of 5-8.5 can be identified using two dimensional gel electrophoresis. Biochemically, most members of the CK family fall into one of two classes, type I (acidic polypeptides) and type II (basic polypeptides). At least one member of the acidic family and one member of the basic family is expressed in all epithelial cells. Monoclonal antibodies to cytokeratin proteins can be useful markers for tumor identification and classification.

This antibody reacts with 53 kDa and 56.6 kDa cytokeratin (CK) proteins by Western blot. These proteins correspond to CK numbers 13 and 10, respectively, according to Moll's classification<sup>1</sup>. Using formalin-fixed, paraffin-embedded tissue sections, this antibody detects only the CK13. With frozen sections, this antibody serves as a differentiation-related marker for all stratified epithelia and stains all suprabasal cell in both cornifying and non-cornifying stratified epithelia and more differentiated cells of squamous carcinomas.

**IMMUNOGEN**

Hybridoma produced by the fusion of splenocytes from mice immunized with cytoskeleton preparation from HeLa cells and mouse myeloma cells.

**POSITIVE CONTROL/TISSUE EXPRESSION**

**COMMENTS**

Antibody detects cytokeration protein numbers 13 and 10 (molecular weights 53 and 56.6 kDa, respectively, according to Moll's classification) by Western blot. Does not react with other cytokeratins or other proteins. Optimal concentration should be evaluated by serial dilutions.

**ORDERING INFORMATION**

**CATALOG NUMBER**

X1252M

**SIZE**

100 µg

**FORM**

Unconjugated

**HOST/CLONE**

Mouse Clone DE-K13

**FORMULATION**

Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG2a

**APPLICATIONS**

Western Blot, Immunohistochemistry (Frozen & Paraffin Sections)

**SPECIES REACTIVITY**

Human

**ACCESSION NUMBER**

.

**PURIFICATION**

Protein A/G Chromatography

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Ivanyi, D., et al. Modulation of mammary carcinoma cell phenotype and keratin expression patterns by retinoic acid. *Cancer Lett*, 1993, 73, 191-205.
2. Ivanyi, D., et al. Cytokeratins as markers of initial stages of squamous metaplasia in feline mammary carcinomas. *Am. J. Vet. Res.* 1993, 54, 1095-1102.
3. Ivanyi, D., et al. Patterns of expression of feline cytokeratins in healthy epithelia and mammary carcinoma cells. *American Journal of Veterinary Research*, 1992, 53, 304-314.
4. Ivanyi, D., et al. Keratin subtypes in carcinomas of the uterine cervix: implications for histogenesis and differential diagnosis. *Cancer Research*, 1990, 50, 5143-5152.
5. Ivanyi, D., et al. New monoclonal antibodies recognizing epidermal differentiation-associated keratins in formalin-fixed, paraffin-embedded tissue. Keratin 10 expression in carcinoma of the vulva. *J of Pathol*, 1989, 159, 7-12.
6. Moll, R., et al. The catalog of human cytokeratins: patterns of expression in normal epithelia, tumors and cultured cells. *Cell* 1982, 31, 11-24