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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Keratin 5 &14. 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. Atleast 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.

Belonging to the type A (acidic) subfamily of low molecular weight keratins and existing in combination with keratin 5, keratin 14 distinguishes stratified epithelial cells from simple epithelial cells and is useful in identification of squamous cell carcinomas. It is considered a prognostic marker in breast carcinomas.

Ordering Information

Catalog Number
X1255M

Size
100 µg

Form
Unconjugated

Host/Clone
Mouse Clone 16.4

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 Sections)

Species Reactivity
Human

Accession Number
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Immunogen

Hybridoma produced by the fusion of splenocytes from mice immunized with cytokeratin enriched extract of feline tongue epithelium and mouse myeloma cells.

Positive Control/Tissue Expression

Comments

Detects Keratin 5 and 14 by Western blot. Detects a 58 kDa band, corresponding to Keratin 5, and a 50 kDa band, corresponding to Keratin 14. Antibody can be used for Western blotting and immunohistochemistry on frozen tissues section (1-5 µg/ml). Does not work on paraffin embedded tissue sections. Optimal concentration should be evaluated by serial dilutions.

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PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

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

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Sorensen, C.B., et al, Identification of novel and known mutations in the genes for keratin 5 and 14 in Danish patients with epidermolysis bullosa simplex: correlation between genotype and phenotype. J. Invest. Dermatol. 1999, 112, 184-190

2. Steinbock, F.A., et al, Dose-dependent linkage, assembly inhibition and disassembly of vimentin and cytokeratin 5/14 filaments through plectin's intermediate filament-binding domain. J. Cell. Sci. 2000, 113, 483-491

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