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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

Nordic MUbio

# Mouse anti Cytokeratin 13 / Keratin K13

Catalogue number: **MUB0322P**

| | |
|---|---|
| Clone | 1C7 |
| Isotype | IgG2a |
| Product Type | Primary Antibodies |
| Units | 0.1 mg |
| Host | Mouse |
| Species reactivity | Human<br>Zebrafish |
| Application | Immunoblotting<br>Immunohistochemistry (frozen) |

## Distributors

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**Background**

Cytokeratins are a subfamily of intermediate filament proteins and are characterized by a remarkable biochemical diversity, represented in Human 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 Human Cytokeratins 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.

Figure 1 Immunofluorescence staining of a 7 days old zebrafish embryo,

**Source**

1C7 is a Mouse monoclonal IgG2a antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with a Cytokeratin preparation extracted from Human esophagus.

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

**Applications**
1C7 is suitable for immunoblotting and immunohistochemistry on frozen tissues. Optimal antibody dilution should be determined by titration; recommended range is 1:25 – 1:200 for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.

**Specificity**
1C7 reacts exclusively with Cytokeratin 13 which is present in non-cornified squamous epithelia, except cornea, and transitional epithelial regions, with the exception of basal cell layers of some stRatified epithelia.

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

**References**
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**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.