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MOUSE ANTI-CYTOKERATIN 7 MONOCLONAL ANTIBODY

CATALOG NUMBER: MAB3554

LOT NUMBER:

QUANTITY: 100 µg

CONCENTRATION: 1 mg/mL

SPECIFICITY: Cytokeratin 7. Reacts with specific glandular-type epithelia most carcinomas derived there from.

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 designated 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.

IMMUNOGEN: Cytoskeletal preparation of OTN-11 ovarian carcinoma cell line.

ISOTYPE: IgG_1

APPLICATIONS: Immunoblotting: 1:100-1:1,000
Immunohistochemistry on frozen tissue sections fixed with methanol. The antibody is also effective on paraffin embedded tissue sections that have been pretreated with 0.1% pronase/0.1% trypsin in PBS, 0.5% pepsin in 0.01N HCl or microwave pretreatment. Suggested working dilution is 1:100-1:200.
Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITIES: Human. Reactivity with other species has not yet been tested.

FORMAT: Purified culture supernatant.

PRESENTATION: Liquid in PBS containing 0.09% sodium azide.

STORAGE/HANDLING: Maintain -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.

REFERENCES:

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2. Immunohistochemical demonstration of Keratin 7 in routinely fixed paraffin-embedded human tissues. C.C. van Niekerk, P.H.K. Jap, F.C.S. Ramaekers, F. van de Molengraft and L.G. Poels. *Journal of Pathologie* **165**:145-152, 1991

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5. Differentiation Margins of ovarian tumor pathology: First incidences of epithelial ovarian tumors monitored by marker antibodies. C.C. van Niekerk, P. Vooijs, I.J. Casparie-van Velsen and L. Poels. *Cancer Detection and Prevention* **21**(3):247-257, 1997

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7. OV-TL12/30 (keratin7 antibody) is a marker of glandular differentiation in lung cancer. F. Van de Molengraft, C.C. van Niekerk, P.H.K. Jap and L.G. Poels. *Histopathology* **22**(1):35-38, 1993.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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