

Cytokeratin (CAM 5.2)


Mouse anti-human Keratin CAM5.2 Antibody (Clone CAM5.2)

REFERENCES AND PRESENTATIONS¹

- **ready-to-use** (manual or LabVision AutoStainer)
MAD-001645QD-3
MAD-001645QD-7
MAD-001645QD-12
- **Ready-to-use (MD-Stainer)²**
MAD-001645QD-3/V
MAD-001645QD/V
- **concentrated**
MAD-001645Q - 1:50 recommended dilution

COMPOSITION

Anti-human Keratin CAM5.2 mouse antibody purified from serum and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide

INTENDED USE : Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

CLONE: CAM5.2

Ig ISOTYPE: Mouse IgG2ak

IMMUNOGEN: Human colorectal carcinoma cell line HT24

SPECIES REACTIVITY: In vitro diagnostics in humans. Not tested in other species

DESCRIPTION AND APPLICATIONS: The nomenclature coined in 1982 by Moll and Franke assigned ranges from 1 to 8 for keratin type II (neutral or basic) and between 9 and 21 for type I (acidic). However and because of the high homology among the different molecules is common for a single monoclonal antibody to react with different types of keratins.

Keratin CAM 5.2 antibody reacts with 38-50 kD molecular weight keratins present in most simple and ductal epithelia.

This antibody is useful for identifying normal and neoplastic epithelial cells in histological sections. Positive stain is obtained in adenocarcinomas of the



breast, bowel, liver, renal, neuroendocrine carcinomas (eg Merkel cell tumor), mesotheliomas, germ cell tumors (except seminoma), synovial and epithelioid sarcoma. Some tissues of non-epithelial origin can be immunostained as smooth muscle, some breast sarcomas, meningiomas and malignant neuroblastomas. CAM 5.2 doesn't stain the stratified epitheliums and does not react with carcinomas arising in the esophagus, vagina and cervix. Negative results were also obtained in lymphomas, melanomas, meningiomas, sarcomas and seminomas.

IHC POSITIVE CONTROL: Tissue microarray of different epithelial organs

VISUALIZATION: Cytoplasm

IHC RECOMMENDED PROCEDURE:

- 4µm thick section should be taken on charged slides; dry overnight at 60°C
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Vitro S.A EDTA buffer pH8³ for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 20 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

STORAGE AND STABILITY:  Stored at 2-8°C. Do not freeze.  Once the packaging has been opened it can be stored until the expiration date of the reagent indicated on the label. If the reagent has been stored under other conditions to those indicated in this document, the user must first check its correct performance taking into account the product warranty is no longer valid.

¹ These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:

- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).

- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).

For different presentations (references / volumes) please contact the supplier.

² For Technical specifications for MD-Stainer, please contact your distributor.

³ Ref: MAD-004072R/D



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WARNINGS AND PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

SAFETY RECOMMENDATIONS:










This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at www.vitro.bio or can be requested at regulatory@vitro.bio.

BIBLIOGRAPHY

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4. Cooper D, Schermer A, Sun T-T. Biology of Disease: Classification of human epithelia and their neoplasms using monoclonal antibodies to keratins: Strategies, applications and limitations. *Lab Invest.* 1985;52:243-256.
5. Smedts F, Raemakers F, Robbin H, et al. Changing patterns of keratin expression during progression of cervical intraepithelial neoplasia. *Am J Pathol.* 1990;136(3):657-667.
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7. National Committee for Clinical Laboratory Standards. *Protection of Laboratory Workers from Infectious Disease Transmitted by Blood, Body Fluids, and Tissue: Tentative Guideline (M29-T2)*. (2 ed.) Villanova, PA: National Committee for Clinical Laboratory Standards, 1991.
8. National Committee for Clinical Laboratory Standards. *Procedures for the Collection of Diagnostic Blood Specimens by Venipuncture (H3-A3)*. Villanova, PA: National Committee for Clinical Laboratory Standards, 1991. 14.
9. Gatter K, Ralfkiaer E, Skinner J, et al. An immunochemical study of malignant melanoma and its differential diagnosis from other malignant tumors. *J Clin Path.* 1985;38:1353-1357.
10. Theaker J, Gatter K, Esiri M, et al. Epithelial membrane antigen and cytokeratin expression by meningiomas: An immunohistochemical study. *J Clin Pathol.* 1986;39:435-439.
11. Wood G, Warnke R. Suppression of endogenous avidinbinding activity in tissues and its relevance to biotinavidin detection systems. *J Histochem Cytochem.* 1981;29:1196-1204.

LABEL AND BOX SYMBOLS

Explanation of the symbols of the product label and box:

	Expiration date
	Temperature limit
	Manufacturer
	Sufficient content for <n> assays
	Catalog number
	Lot code
	Refer to the instructions of use
	Medical product for <i>in vitro</i> diagnosis.
	Material safety data sheet

