

## Cytokeratin 8 (EP17)


### Rabbit anti-human Cytokeratin 8 Monoclonal Antibody (Clone EP17)

#### REFERENCES AND PRESENTATIONS<sup>1</sup>

- **ready-to-use** (manual or LabVision AutoStainer)  
MAD-000683QD-3  
MAD-000683QD-7  
MAD-000683QD-12
- **Ready-to-use (MD-Stainer)<sup>2</sup>**  
MAD-000683QD-3/V  
MAD-000683QD/V
- **concentrated**  
MAD-000683Q - 1:50 recommended dilution

#### COMPOSITION

Anti-human Cytokeratin 8 rabbit monoclonal 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:** EP17<sup>3</sup>

**Ig ISOTYPE:** Rabbit IgG

**IMMUNOGEN:** A synthetic peptide corresponding on the C-terminus.

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

**DESCRIPTION AND APPLICATIONS:** Cytokeratin 8 (CK8) is an intermediate filament protein produced early in embryogenesis. It is the only type-II CK present in many simple epithelial of the respiratory, gastrointestinal, male and female reproductive tract and thyroid. CK8 is often co-expressed with Cytokeratin 18. CK8/18 is the major keratin pair in simple-type epithelia, as found in the liver, pancreas, and intestine. CK8 antibody is used to detect adenocarcinomas with simple epithelium origin. The difference in staining pattern is useful to distinguish



ductal (peripheral staining) from lobular (perinuclear staining) breast carcinoma.

**IHC POSITIVE CONTROL:** Liver or breast

**VISUALIZATION:** Cell membrane and 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 pH8<sup>4</sup> 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 10 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.

#### 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.

<sup>1</sup> 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.

<sup>2</sup> For Technical specifications for MD-Stainer, please contact your distributor.

<sup>3</sup> Cytokeratin 8 clone EP 17 is manufactured using Epitomics's RabMAb® technology under U.S. Patent Nos. 5,675,063 and 7,402,409

<sup>4</sup> Ref: MAD-004072R/D



**Vitro S.A.**

Calle Luís Fuentes Bejarano 60 Ed. Nudo Norte Local 3 41020 Sevilla (Spain)  
Tel: +34 954 933 200. [vitr@vitro.bio](mailto:vitr@vitro.bio) ; [www.vitro.bio](http://www.vitro.bio)



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## 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](http://www.vitro.bio) or can be requested at [regulatory@vitro.bio](mailto:regulatory@vitro.bio).

## BIBLIOGRAPHY

1. Chan R, Edwards BF, Hu R, Rossitto PV, Min BH, Lund JK, Cardiff RD: Characterization of two monoclonal antibodies in an immunohistochemical study of keratin 8 and 18 expression. Am J Clin Pathol. 89:472-80 (1988).
2. Guelstein VI, Tchypysheva TA, Ermilova VD, Litvinova LV, Troyanovsky SM, Bannikov GA: Monoclonal antibody mapping of keratins 8 and 17 and of vimentin in normal human mammary gland, benign tumors, dysplasias and breast cancer. Int J Cancer. 42:147-53 (1988).
3. Tsubura A, Okada H, Sasaki M, Dairkee SH, Morii S: Immunohistochemical demonstration of keratins 8 and 14 in benign tumours of the skin appendage. Virchows Arch A Pathol Anat Histopathol. 418:503-7 (1991).

## 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

