

## Hepatocyte Specific Antigen (Hep Par 1) (OCH1E5)


### Mouse anti-human Hepatocyte Specific Antigen (Hep Par 1) Monoclonal Antibody (Clone OCH1E5)

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

- **ready-to-use (manual or LabVision AutoStainer)**  
MAD-000916QD-3  
MAD-000916QD-7  
MAD-000916QD-12
- **Ready-to-use (MD-Stainer)<sup>2</sup>**  
MAD-000916QD-3/V  
MAD-000916QD/V
- **concentrated**  
MAD-000916Q - 1:50 recommended dilution

#### COMPOSITION

Anti-human HepPar 1 mouse 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:** OCH1E5

**Ig ISOTYPE:** Mouse IgG1/k

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

#### DESCRIPTION AND APPLICATIONS:

Anti-hepatocyte specific antigen, also known as anti-Hep-Par1, recognizes both benign and malignant liver-derived tissues including such tumors as hepatoblastoma, hepatocellular carcinoma (including its fibrolamellar variant), and hepatic adenoma. It recognizes both normal adult and fetal liver tissue. The typical pattern is a granular cytoplasmic staining. This antibody is useful in differentiating hepatocellular carcinomas with adenoid features from adenocarcinomas, either primary in the liver or metastatic lesions to the liver. In labeling hepatoblastoma, it is useful in differentiating this entity from other small round cell tumors.

No reaction is usually seen with other human tumors with the exception of some gastrointestinal tumors.



Occasionally it might be expressed by some tumors which include adrenal carcinomas, yolk sac tumors, adenocarcinomas of the colon, lung, ovarian carcinomas and adenocarcinomas of the endocervix.

**IHC POSITIVE CONTROL:** Liver

**VISUALIZATION:** Cell 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>3</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> Ref: MAD-004072R/D



## 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. Fasano M, Theise N D, Nalesnik M, et al.. Immunohistochemical evaluation of hepatoblastomas with use of the hepatocyte-specific marker, hepatocyte paraffin 1, and the polyclonal anti-carcinoembryonic antigen. Modern Pathology. 11(10): 934-938 (1998).
2. Schleger C, Heck R, Niketeghad F, et al.. Establishment and characterization of a nontumorigenic cell line derived from a human hepatocellular adenoma expressing hepatocyte-specific markers. Exp. Cell Res. 236(2): 418-426 (1997).
3. Wennerberg A E, Nalesnik M A and Coleman W B. Hepatocyte paraffin 1: a monoclonal antibody that reacts with hepatocytes and can be used for differential diagnosis of hepatic tumors. American Journal of Pathology. 143: 1050-1054 (1993).
4. Fan Z, van de Rijn M, Montgomery K, Rouse RV. Hep par 1 antibody stain for the differential diagnosis of hepatocellular carcinoma: 676 tumors tested using tissue microarrays and conventional tissue sections. Mod Pathol. 16: 137-144 (2003).

## 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