Hepatocyte Specific Antigen (OCH1E5): sc-58693



The Power to Question

BACKGROUND

Hepatocyte Specific Antigen, also called Hepatocyte Paraffin 1 or Hep Par 1, localizes to the mitochondria of hepatocytes. It is a sensitive marker for diagnosing hepatocellular carcinomas (HCC) in humans and dogs and distinguishing them from metastatic carcinomas and cholangiocarcinomas. Strong expression of the Hepatocyte Specific Antigen correlates with smaller tumors and longer patient survival. HCCs occur primarily in the stomach, but they are also found in many other organs. The Hepatocyte Specific Antigen may also be a useful marker for intestinal metaplasia. A very small percentage of HCCs do not contain the Hepatocyte Specific Antigen, and this may be associated with an alternative mechanism of hepatocarcinogenesis in its early stages. To a lesser extent, the Hepatocyte Specific Antigen is also found in gastric carcinomas as well as a few other nonhepatic tumors.

SOURCE

Hepatocyte Specific Antigen (OCH1E5) is a mouse monoclonal antibody raised against liver extract of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Hepatocyte Specific Antigen (OCH1E5) is available conjugated to agarose (sc-58693 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-58693 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-58693 PE), fluorescein (sc-58693 FITC), Alexa Fluor® 488 (sc-58693 AF488), Alexa Fluor® 546 (sc-58693 AF546), Alexa Fluor® 594 (sc-58693 AF594) or Alexa Fluor® 647 (sc-58693 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-58693 AF680) or Alexa Fluor® 790 (sc-58693 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Hepatocyte Specific Antigen (OCH1E5) is recommended for detection of an uncharacterized antigen present in both adults and fetal normal hepatocytes to produce a distinct granular cytoplasmic staining. This antibody stains the majority of hepatocellular carcinomas of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Immunofluorescence: use m-lgG κ BP-FITC: sc-516140 or m-lgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz* Mounting Medium: sc-24941 or UltraCruz* Hard-set Mounting Medium: sc-359850. 2) Immunohistochemistry: use m-lgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

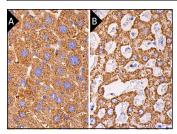
STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA



Hepatocyte Specific Antigen (OCH1E5): sc-58693. Immunoperoxidase staining of formalin fixed, paraffinembedded mouse liver (A) and human liver (B) tissue showing cytoplasmic staining of hepatocytes.

SELECT PRODUCT CITATIONS

- 1. Xu, J., et al. 2009. Cathepsin S is aberrantly overexpressed in human hepatocellular carcinoma. Mol. Med. Rep. 2: 713-718.
- 2. Wijayalath, W., et al. 2014. Humanized HLA-DR4.RagKO.IL2RycKO.NOD (DRAG) mice sustain the complex vertebrate life cycle of *Plasmodium falciparum* malaria. Malar. J. 13: 386.
- 3. Fenton, S.E., et al. 2015. Targeting Fyn in Ras-transformed cells induces F-Actin to promote adherens junction-mediated cell-cell adhesion. Mol. Carcinog. 54: 1181-1193.
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- Lin, Z.Y., et al. 2022. Limited sorafenib anticancer effects on primary cultured hepatocellular carcinoma cells with high NANOG expression. Kaohsiung J. Med. Sci. 38: 157-164.
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PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.