



# Hepatocyte Specific Antigen (3D16): sc-71243

## 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.

## REFERENCES

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4. Tsung, J.S., et al. 2004. Hepatoid carcinoma of the ovary: characteristics of its immunoreactivity. A case report. *Eur. J. Gynaecol. Oncol.* 25: 745-748.
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## SOURCE

Hepatocyte Specific Antigen (3D16) is a mouse monoclonal antibody raised against liver extract of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Hepatocyte Specific Antigen (3D16) 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).

Molecular Weight of Hepatocyte Specific Antigen: 66 kDa.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ 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-IgGκ 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.