Anti-Human alpha-Fetoprotein Alexa Fluor® 488

Catalog Number: 53-6583
Also known as: AFP
RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human alpha-Fetoprotein Alexa Fluor® 488
REF **Catalog Number:** 53-6583
Clone: AFP3
Concentration: 0.5 mg/mL
Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Contains sodium azide

Description

This AFP3 monoclonal antibody reacts with human alpha-fetoprotein (AFP). This 70-kDa secretory protein is a member of the albumin gene family. Synthesized by the yolk sac and fetal liver during embryogenesis, AFP protein levels are highest in fetal serum. After birth, serum AFP levels decrease dramatically. In fact, AFP is nearly undetectable in normal adult serum. However, hepatocellular carcinoma and germ cell teratoblastoma, as well as liver regeneration, viral hepatitis, and cirrhosis, leads to elevated AFP serum levels in adults. As such, detection of this protein is frequently used as a diagnostic marker for these conditions.
When performing western blotting or immunohistochemistry on paraffin section, we recommend the use of monoclonal antibody 1E8 (cat. 14-9499).

Applications Reported

This AFP3 antibody has been reported for use in immunocytochemistry.

Applications Tested

This AFP3 antibody has been tested by immunofluorescent staining of formaldehyde-fixed and permeabilized HepG2 cells. This can be used at less than or equal to 10 µg/ml. It is recommended that the antibody be titrated for optimal performance in the assay of interest.

References

Lazarevich NL. Molecular mechanisms of alpha-fetoprotein gene expression. Biochemistry (Mosc). 2000 Jan;65(1):117-33. Review.

Kuo CY, Fu J, Yeh MY, Su SL, Lee CY. Generation of monoclonal antibodies to alpha-fetoprotein and application in solid-phase enzyme immunoassay. Biotechnol Appl Biochem. 1989 Feb;11(1):96-104. (**AFP3**, ELISA, Pubmed)

Related Products

53-4714 Mouse IgG1 K Isotype Control Alexa Fluor® 488 (P3.6.2.8.1)

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