Revision 1

Store at +4C

#7877

AFP (3H8) Mouse mAb (Alexa Fluor® 594 Conjugate)

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC	H	Endogenous	Mouse IgG2a	#P02771	174

Product Usage Information

Application	Dilution
Immunofluorescence (Immunocytochemistry)	1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

AFP (3H8) Mouse mAb (Alexa Fluor® 594 Conjugate) recognizes endogenous levels of total AFP protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant fragment of human AFP.

Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 594 fluorescent dye and tested in-house for direct immunofluorescent analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated AFP (3H8) Mouse mAb #3903.

Background

Alpha-fetoprotein (AFP) is a 65 kDa glycoprotein found in the mammalian fetal liver, yolk sac, and GI tract. While AFP expression in adult cells is low, it is aberrantly expressed in adult liver cancer cells (1,2). The tumor suppressor gene p53 and β-catenin are both involved in the regulation of AFP expression. In normal adult cells, p53 binds to the repressor region of the AFP gene, thereby blocking transcription. Mutations in both p53 and β-catenin are associated with aberrant expression of AFP. Research studies have shown that elevated serum AFP levels are predictive of hepatocellular carcinoma (3).

Background References

1. Meier, V. et al. (2006) *Comp Hepatol* 5, 2.
2. Warnes, T.W. and Smith, A. (1987) *Baillieres Clin Gastroenterol* 1, 63-89.
3. Peng, S.Y. et al. (2004) *Int J Cancer* 112, 44-50.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

Trademarks and Patents

Limited Uses

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