

## Human AFP Antibody, mAb, Mouse

### Products information

Cat.No	Clone	Ig Subclass
A01788	1D9H5	IgG1, $\kappa$
A01789	2E1C10	IgG1, $\kappa$
A01790	3B6G7	IgG1, $\kappa$

**Host:** Mouse

**Immunogen:** AFP protein purified from human hepatocellular carcinoma.

**Purification:** Protein A affinity column

**Conjugation:** Unconjugated

**Version:** 03/22/2012

### Description

AFP (Alpha-Feto Protein) is a glycoprotein with molecular weight of approximately 70 kDa. It is a major protein in developing fetus and decreases to lower level after birth. In healthy adults, less than 20 ng/ml of AFP is found in the serum. Serum AFP elevates when hepatocellular carcinoma or testicular germ cell tumors occurs. Therefore, it is a useful marker in diagnosing hepatocellular carcinoma and germ cell tumors. In addition, for pregnant women, the AFP concentration is 10-150 ng/ml in the blood. High levels of AFP can indicate a neural tube defect of the fetus, such as spina bifida.

**GenScript Human AFP Antibody, mAb, Mouse** is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with AFP protein purified from human hepatocellular carcinoma (Swiss-Prot: P02771).

### Species Reactivity

AFP monoclonal antibodies (1D9H5, 2E1C10 and 3B6G7) recognize human AFP protein.

### Sensitivity

The limit of detection for antibody pairs is less than 20 pg/ml.

### Product Buffer

PBS, pH 7.4, containing 0.02% sodium azide.

### Storage

**GenScript Human AFP Antibody, mAb, Mouse** should be stored at -20°C or below until use. Avoid repeated freezing and thawing cycles.

### Applications

These antibodies are perfect choice for in vitro diagnostic assay development. They are prepared for non-clinical research use only. The recommended pairs are based on our laboratory results.

ELISA Capture: 1-10  $\mu$ g/ml

ELISA Detection: 0.05-0.2  $\mu$ g/ml

Recommended antibody pairing for sandwich immunoassay:

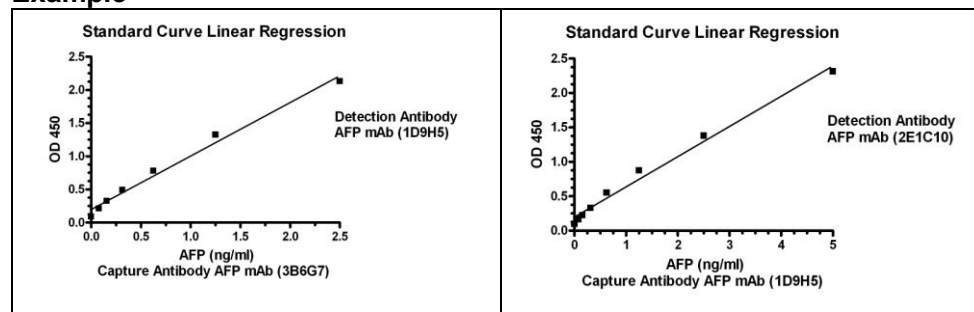
Capture \ Detection	A01788 (1D9H5)	A01789 (2E1C10)	A01790 (3B6G7)
A01788 (1D9H5)	-	-	+
A01789 (2E1C10)	+	-	-
A01790 (3B6G7)	-	-	-

\*\* For non-clinical research use only. \*\*

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## Example



Antibody pairs analysis of AFP monoclonal antibodies by Sandwich ELISA:

### General conditions:

1. Microplate was incubated with a capture antibody against AFP and blocked with PBS containing 1% BSA, followed by 3 washing cycles.
2. Incubation with AFP protein followed by 3 washing cycles.
3. Incubation with Biotin labeled detection antibody against AFP, followed by 3 washing cycles.
4. Incubation with Streptavidin-HRP, followed by 3 washing cycles.
5. Colorimetric determination of bound peroxidase activity.

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