



## ANOGEN - A Division of YES Biotech Laboratories Ltd.

2355 Derry Road East, Unit 23, Mississauga, ON, Canada L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023

### Mouse Anti-Human Alpha Fetoprotein Monoclonal Antibody Datasheet

**Product Name:** mAb anti-Human Alpha Fetoprotein

**Clone No.:** AFP-Y2

**Catalogue No.:** MO-T40007A

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody to human alpha fetoprotein (AFP)

**Purification:** Protein G affinity purified

**Product Type:** Primary antibody-**detection** antibody in matched antibody pair.

**Target Protein:** Human AFP

**Immunogen:** Human AFP, which was isolated from amniotic fluid and purified by affinity chromatography.

**Fusion Myeloma:** Sp2/0-Ag14

**Specificity:** React with AFP. No detectable cross-reaction with human normal serum proteins.

**Reactivity:** Human, others not tested

**Host / Isotype:** Mouse, IgG1 Kappa

**Formulation:** Lyophilized from a solution in 0.01M PBS, pH7.0

**Reconstitution:** Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

**Storage:** Store at -20°C

**Research Area:** Oncology

**Background:** Alpha fetoprotein (AFP) is a 70kD glycoprotein which is produced primarily by liver cells in fetuses. It exists in significant amount in foetal plasma and decreases rapidly after birth. Moderate amount of AFP exists in serum of pregnant women. Monitoring mother's serum AFP level in second trimester pregnancy can help assessing birth defects such as Down syndrome, neural tube defect and anencephaly. Elevated AFP level in men, children and non-pregnant women is associated with neoplastic conditions in liver, testicle or ovary.

**Applications:** **ELISA:** This antibody can be used as a detection antibody in sandwich immunoassay for human AFP detection in combination with capture antibody mAb AFP-Y1 (Cat. No.: MO-T40007B).

**Western blot:** The antibody identifies 68kD AFP on western blot.

**References:** If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

Manufactured by ANOGEN - A Division of YES Biotech Laboratories Ltd.