



# Magic™ Anti-AFP monoclonal antibody, clone 3C9 (DMAB-L21040)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with purified human AFP receptor.
<b>Antigen Description</b>	This gene encodes alpha-fetoprotein, a major plasma protein produced by the yolk sac and the liver during fetal life. Alpha-fetoprotein expression in adults is often associated with hepatoma or teratoma. However, hereditary persistence of alpha-fetoprotein may also be found in individuals with no obvious pathology. The protein is thought to be the fetal counterpart of serum albumin, and the alpha-fetoprotein and albumin genes are present in tandem in the same transcriptional orientation on chromosome 4. Alpha-fetoprotein is found in monomeric as well as dimeric and trimeric forms, and binds copper, nickel, fatty acids and bilirubin. The level of alpha-fetoprotein in amniotic fluid is used to measure renal loss of protein to screen for spina bifida and anencephaly.
<b>Specificity</b>	MAb reacts with different determinants of human AFP receptor.
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	3C9
<b>Purification</b>	Chromatography on protein A Sepharose
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Detection of AFP receptor in tissue extracts. Suggested pair for sandwich ELISA (capture - detection): DMAB-L21039 - DMAB-L21040. Western blotting

<b>Procedure</b>	Cardiac markers Antibodies
<b>Buffer</b>	PBS, pH 7.4, 0.1 % sodium azide (NaN <sub>3</sub> )
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	4°C

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">AFP alpha-fetoprotein [ Homo sapiens ]</a>
<b>Official Symbol</b>	AFP
<b>Synonyms</b>	AFP; alpha-fetoprotein; FETA; HPAPF; OTTHUMP00000160480; OTTHUMP00000220440; alpha-fetoglobulin; alpha-1-fetoprotein
<b>Entrez Gene ID</b>	<a href="#">174</a>
<b>Protein Refseq</b>	<a href="#">NP_001125</a>
<b>UniProt ID</b>	<a href="#">P02771</a>
<b>Chromosome Location</b>	4q11-q13
<b>Pathway</b>	Direct p53 effectors, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem
<b>Function</b>	metal ion binding