



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

Product Overview	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.
Antigen Description	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.
Specificity	MAB reacts with different determinants of human AFP receptor.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	3C9
Purification	Chromatography on protein A Sepharose
Conjugate	Unconjugated
Applications	Detection of AFP receptor in tissue extracts. Suggested pair for sandwich ELISA (capture - detection): DMAB-L21039 - DMAB-L21040. Western blotting

Buffer	PBS, pH 7.4, 0.1 % sodium azide (NaN?)
Preservative	0.1% Sodium Azide
Storage	4°C

GENE INFORMATION

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