



Anti-Alpha fetoprotein monoclonal antibody, clone 5B4 (DMABT-H11141)

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

PRODUCT INFORMATION

Antigen Description	This is 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.
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Specificity	Human alpha-fetoprotein. Does not react with human albumin.
Target	Alpha fetoprotein
Immunogen	Purified human alpha-fetoprotein.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	5B4
Affinity Constant	Not Determined
Purification	Protein A Chromatography
Conjugate	Unconjugated
Format	Biotin, Liquid

Concentration	0.9 mg/mL (OD280nm, E0.1% = 1.4)
Buffer	20 mM Tris-HCL, 150 mM Sodium Chloride, pH 7.5.
Preservative	0.1% Sodium Azide
Storage	Store at 2–8°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