AFP Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	AFP, Monoclonal Antibody
Full Product Name	AFP Monoclonal Antibody Cy3 Conjugated (A2)
Product Gene Name	anti-AFP antibody
Product Synonym Names	AFPD; FETA; HPAFP; Alpha-fetoprotein; Alpha-1-fetoprotein; Alpha-fetoglobulin; AFP
Clonality	Monoclonal
Isotype	IgG
Clone Number	A2
Host	Mouse
Species Reactivity	Human
Form/Format	Aqueous buffered solution containing 1% BSA, 50% glycerol and 0.09% sodium azide.
Purity/Purification	Purified by Protein G
Concentration	1mgml (lot specific)
Preparation and Storage	Store at 4 degree C for 12 months.
Molecular Weight	68,678 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (74301933..74321492). Location: 4q13.3
OMIM	104150
3D Structure	ModBase 3D Structure for P02771
Conjugation	Cy3
Excitation Emission	512,550nm 570,615nm
Immunogen	Full length human AFP protein
Product Categories/Family for anti-AFP antibody	Conjugated Primary Antibodies
Applications Tested/Suitable for anti-AFP antibody	Immunofluorescence (IF)
Application Notes for anti-AFP antibody	IF: 1:50-200
Related Product Information for anti-AFP antibody	Binds copper, nickel, and fatty acids as well as, and bilirubin less well than, serum albumin. Only a small percentage (less than 2%) of the human AFP shows estrogen-binding properties.
Other Notes	Small volumes of anti-AFP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AFP purchase	MBS9462012 is an antibody targeting AFP. Also known as AFP Monoclonal Antibody Cy3 Conjugated (A2). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AFP. It may not necessarily be applicable to this product.

NCBI GI #	4501989
NCBI GeneID	174
NCBI Accession #	NP_001125.1
UniProt Primary Accession #	P02771
UniProt Secondary Accession #	B2RBU3
UniProt Related Accession #	P02771
GenBank Nucleotide #	NM_001134.1
NCBI Official Full Name	alpha-fetoprotein
NCBI Official Synonym Full Names	alpha-fetoprotein
NCBI Official Symbol	AFP
NCBI Official Synonym Symbols	FETA; HPAFP
UniProt Protein Name	Alpha-fetoprotein
UniProt Synonym Protein Names	Alpha-1-fetoprotein; Alpha-fetoglobulin
Protein Family	Alpha-fetoprotein
UniProt Gene Name	AFP
UniProt Synonym Gene Names	HPAFP
UniProt Entry Name	FETA_HUMAN
NCBI Protein Information	alpha-fetoprotein; alpha-fetoglobulin; alpha-1-fetoprotein
NCBI Summary for AFP	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 persistance 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. [provided by RefSeq, Jul 2008]
UniProt Comments for AFP	Function: Binds copper, nickel, and fatty acids as well as, and bilirubin less well than, serum albumin. Only a small percentage (less than 2%) of the human AFP shows estrogen-binding properties. Subunit structure: Dimeric and trimeric forms have been found in addition to the monomeric form. Subcellular location: Secreted. Tissue specificity: Plasma. Synthesized by the fetal liver and yolk sac. Developmental stage: Occurs in the plasma of fetuses more than 4 weeks old, reaches the highest levels during the 12th-16th week of gestation, and drops to trace amounts after birth. The serum level in adults is usually less than 40 ng/ml. AFP occurs also at high levels in the plasma and ascitic fluid of adults with hepatoma. Post-translational modification: Independent studies suggest heterogeneity of the N-terminal sequence of the mature protein and of the cleavage site of the signal sequence.Sulfated. Sequence similarities: Belongs to the ALB/AFP/VDB family.Contains 3 albumin domains.
Research Articles on AFP	**1.** Preoperative AFP level is an independent prognostic factor affecting postoperative recurrence in HCC patients and correlated with the time to recurrence.

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