Alpha-Fetoprotein (aFP) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Alpha-Fetoprotein (aFP), Polyclonal Antibody
Full Product Name	Biotin-Linked Antibody to Alpha-Fetoprotein (aFP)
Product Gene Name	anti-aFP antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Dog
Form/Format	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3,50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	500ug/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against aFP conjugated to biotin. It has been selected for its ability to recognize aFP in immunohistochemical staining andwestern blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Unconjugated Antibody: aFP (MBS2002167) Biotin Conjugated Antibody: aFP (MBS2004122)
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
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Product Categories/Family for anti-aFP antibody	Biotin Antibody
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-aFP antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-aFP antibody	Western blotting: 1:100-400 Immunocytochemistry in formalin fixed cells: 1:100-500 Immunohistochemistry in formalin fixed frozen section: 1:100-500 Immunohistochemistry in paraffin section: 1:50-200 Enzyme-linked Immunosorbent Assay: 1:100-200
Related Product Information for anti-aFP antibody	MBS2004122 is an antibody targeting aFP. Also known as Biotin-Linked Antibody to Alpha-Fetoprotein (aFP). Reactive in Dog. Host: Rabbit.
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.

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_001134.2
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	AFP: 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. Dimeric and trimeric forms have been found in addition to the monomeric form. Plasma. Synthesized by the fetal liver and yolk sac. Belongs to the ALB/AFP/VDB family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q13.3 Cellular Component: extracellular space; cytoplasm Molecular Function: metal ion binding Biological Process: transport; progesterone metabolic process; ovulation from ovarian follicle Disease: Alpha-fetoprotein Deficiency; Alpha-fetoprotein, Hereditary Persistence Of
Research Articles on aFP	**1.** Hepatocellular carcinoma differentiation, size and vascular invasion have strong relationships with AFP levels.

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