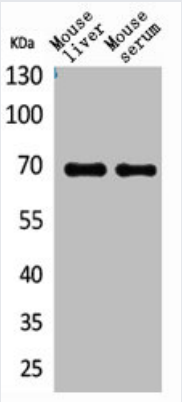
# AFP Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | AFP, Polyclonal Antibody |
| **Full Product Name** | AFP Antibody |
| **Product Gene Name** | anti-AFP antibody |
| **Product Synonym Names** | AFP; HPAFP; Alpha-fetoprotein; Alpha-1-fetoprotein; Alpha-fetoglobulin |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide. |
| **Purity/Purification** | Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Preparation and Storage** | Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze. |
| **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 |
| **Immunogen** | Synthesized peptide derived from the Internal region of human AFP. |
| **Immunogen Species** | Human |
| **Conjugate** | Non-conjugated |
| **Product Categories/Family for anti-AFP antibody** | Cardiovascular |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-AFP antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-AFP antibody** | WB: 1:500-1:2000<br>ELISA: 1:20000 |
| **Related Product Information for anti-AFP antibody** | MBS7117385 is an antibody targeting AFP. Also known as AFP Antibody. Reactive in Human. 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. |




**Western Blot (WB) of anti-AFP antibody**
Western Blot analysis of mouse liver mouse serum cells using AFP Polyclonal Antibody

## ADDITIONAL DETAILS

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

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| **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] |

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| **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.<br><br>Subunit structure: Dimeric and trimeric forms have been found in addition to the monomeric form.<br><br>Subcellular location: Secreted.<br><br>Tissue specificity: Plasma. Synthesized by the fetal liver and yolk sac.<br><br>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.<br><br>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.<br><br>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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