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AFP Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP1430a

Specification

AFP Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P02771

AFP Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 174

Other Names
Alpha-fetoprotein, Alpha-1-fetoprotein, Alpha-fetoglobulin, AFP, HPAFP

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1430a was selected from the N-term region of human AFP. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AFP Antibody (N-term) Blocking Peptide - Protein Information

Name AFP

Synonyms HPAFP

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.

Cellular Location
Secreted.

Tissue Location
Plasma. Synthesized by the fetal liver and yolk sac

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AFP Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

AFP Antibody (N-term) Blocking Peptide - Images

AFP Antibody (N-term) Blocking Peptide - Background

Alpha-fetoprotein (AFP) 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 persistance of alpha-fetoprotein may also be found in individuals with no obvious pathology. This 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.

AFP Antibody (N-term) Blocking Peptide - References

Yamashita,T., Cancer Res. 68 (5), 1451-1461 (2008)Chen,G.G., Eur J Surg Oncol 33 (7), 882-886 (2007)Cajaiba,M.M., Pediatr. Dev. Pathol. 10 (3), 233-238 (2007)