

**Anti-AFP Picoband Antibody**  
Catalog # ABO11799**Specification**

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**Anti-AFP Picoband Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P02771</a> |
| Host              | Rabbit                 |
| Reactivity        | Human, Mouse, Rat      |
| Clonality         | Polyclonal             |
| Format            | Lyophilized            |

**Description**

Rabbit IgG polyclonal antibody for Alpha-fetoprotein(AFP) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-AFP Picoband Antibody - Additional Information**

**Gene ID** 174

**Other Names**

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

**Calculated MW**

68678 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Secreted.

**Tissue Specificity**

Plasma. Synthesized by the fetal liver and yolk sac.

**Protein Name**

Alpha-fetoprotein

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E.coli-derived human AFP recombinant protein (Position: Q378-V609). Human AFP shares 71% and 73% amino acid (aa) sequences identity with mouse and rat AFP, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the ALB/AFP/VDB family.

**Anti-AFP Picoband Antibody - 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.

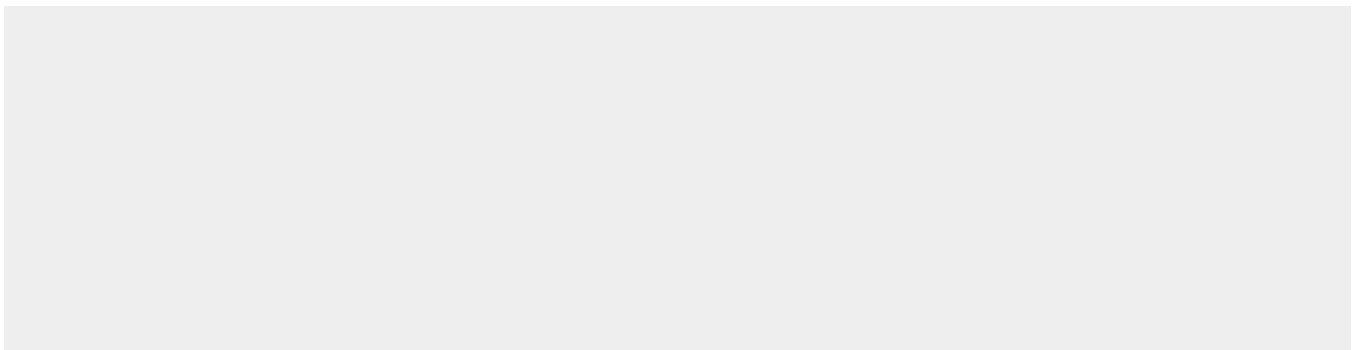
**Tissue Location**

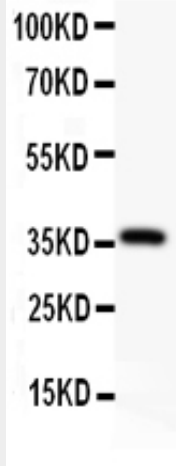
Plasma. Synthesized by the fetal liver and yolk sac

**Anti-AFP Picoband Antibody - Protocols**

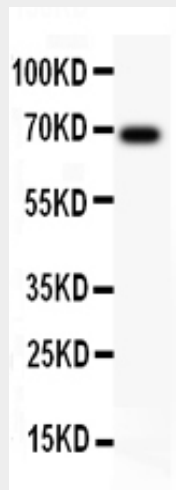
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-AFP Picoband Antibody - Images**



Anti-AFP Picoband antibody, ABO11799-1.jpg All lanes: Anti AFP (ABO11799) at 0.5ug/ml WB:  
Human Recombinant AFP Protein 0.5ng Predicted bind size: 36KD Observed bind size: 36KD



Anti-AFP Picoband antibody, ABO11799-2.jpg All lanes: Anti AFP (ABO11799) at 0.5ug/ml WB:  
HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 69KD Observed bind size: 69KD

### Anti-AFP Picoband Antibody - Background

AFP, also called Alpha-fetoprotein; alpha-fetoprotein, is a protein that in humans is encoded by the AFP gene. It is mapped to 4q13.3. The level of AFP in amniotic fluid is used to measure renal loss of protein to screen for spina bifida and anencephaly. In rodents AFP binds estradiol to prevent the transport of this hormone across the placenta to the fetus. The main function of this is to prevent the virilization of female fetuses. Moreover, it has an important role as a diagnostic marker, especially in certain tumors and liver diseases of childhood. AFP is also used to test the potential usefulness of plasma alpha fetoprotein determination as a diagnostic marker in biliary atresia, hepatitis, and yolk sac derived tumours.