

## Anti-alpha 1 Fetoprotein/AFP Antibody Picoband® PE Conjugated

Catalog Number: PB9090-PE

### About AFP

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.

### Overview

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|----------------------|--|
| Product Name         | Anti-alpha 1 Fetoprotein/AFP Antibody Picoband® PE Conjugated  |
| Reactive Species     | Human  |
| Application          | Flow Cytometry   |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.         |
| Host                 | Rabbit   |
| Uniprot ID           | P02771   |

### Technical Details

|                     |   |
|---------------------|---|
| 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. |
| Cross Reactivity    | No cross-reactivity with other proteins   |
| Isotype             | Rabbit IgG  |
| Form                | Liquid  |
| Concentration       | 0.5 mg/mL   |
| Purification        | Immunogen affinity purified.  |
| Conjugate           | PE<br>Excitation Wavelength: 566 nm<br>Emission Wavelength: 574 nm  |
| Suggested Dilutions | Flow Cytometry, Optimal dilutions should be determined by end users.  |

## 11 Publications Citing This Product

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1. PubMed ID: 26235702, Adipose tissue-derived mesenchymal stem cells differentiated into hepatocyte-like cells in vivo and in vitro
2. PubMed ID: 25576343, Extracellular regulated protein kinases 1/2 phosphorylation is required for hepatic differentiation of human umbilical cord-derived mesenchymal stem cells
3. PubMed ID: 29246405, Selective tropism of liver stem cells to hepatocellular carcinoma in vivo.

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