### AFP Monoclonal Antibody

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>A11865</th>
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</thead>
<tbody>
<tr>
<td>Applications</td>
<td>WB, IHC, IF</td>
</tr>
<tr>
<td>Cross-reactivity</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Category</td>
<td>Monoclonal Antibodies</td>
</tr>
<tr>
<td>Observed MW</td>
<td>69kDa</td>
</tr>
<tr>
<td>Calculated MW</td>
<td>68kDa</td>
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</tbody>
</table>

#### Immunogen Information
- **Immunogen**: Recombinant protein of human AFP
- **Gene ID**: 174
- **Swiss prot**: P02771
- **Synonyms**: AFP; AFPD; FETA; HPAFP; alpha-fetoprotein

#### Product Information
- **Source**: Mouse
- **Isotype**: IgG
- **Purification method**: Affinity purification
- **Storage**: Store at -20°C. Avoid freeze / thaw cycles.
  - Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

#### Background
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 persistence 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.

#### Recommended Dilutions
- **WB**: 1:500 - 1:2000
- **IHC**: 1:50 - 1:200
- **IF**: 1:50 - 1:200

![Western blot analysis of extracts of various cells, using AFP antibody (A11865) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.](image1)

![Immunohistochemistry of paraffin-embedded human liver cancer using AFP antibody (A11865) at dilution of 1:12.5 (40x lens).](image2)

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