

## Product datasheet for **AP33053FC-N**

### alpha 1 Fetoprotein (AFP) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC
Recommended Dilution:	Can be used to identify and measure Alpha Foetoprotein at the cellular and subcellular level by Immunofluorescence staining of appropriately treated cell and tissue substrates, This immunoconjugate is not pre-diluted. The optimum working dilution of each conjugate should be established by titration before being used. Excess labelled antibody must be avoided because it may cause high unspecific background staining and interfere with the specific signal. <i>Recommended Working Dilutions: 1/20-1/80.</i>
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Purified Human Alpha-Foetoprotein is isolated from pooled amniotic fluid and hepatoma serum, using a proprietary multiple step method. Freund's complete adjuvant is used in the first step of the immunization procedure.
Specificity:	The reactivity of the antiserum is restricted to alpha-foetoprotein. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against amniotic fluid, hepatoma sera and purified alpha-foetoprotein a single precipitin line is obtained. No precipitation reaction is obtained with normal human serum. <b>Cross-reactivity:</b> The antiserum does not cross react with any other human plasma proteins as tested in gel-diffusion techniques. Inter-species cross reactivity is a normal feature of antibodies to mammalian serum proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail.



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<b>Formulation:</b>	<p>PBS, pH 7.2 without preservatives</p> <p>Label: FITC</p> <p>State: Lyophilized purified hyperimmune IgG fraction</p> <p>Label: Fluorescein isothiocyanate isomer 1.</p> <p><b>Conjugation procedure:</b> A proprietary technique for the binding to FITC is used, followed by several purification steps to remove free reactants and protein aggregates. After each step activity and specificity are tested in a variety of techniques. The conjugate is lyophilized to assure stability and long shelf life.</p> <p>Absorption emission: 492 nm / 515 nm</p> <p>Molar ratio: Fluorochrome/IgG: ~1.5</p>
<b>Reconstitution Method:</b>	Restore by adding 1 ml of sterile distilled water.
<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	FITC
<b>Storage:</b>	<p>Store lyophilized at 2-8°C for 6 months or at -20°C long term.</p> <p>After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.</p> <p>Avoid repeated freezing and thawing.</p>
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	alpha fetoprotein
<b>Database Link:</b>	<a href="#">Entrez Gene 174 Human P02771</a>
<b>Background:</b>	<p>Several foetoproteins have been demonstrated in human foetal serum and amniotic fluid. One of the best studied is the alphafoetoprotein. It cab easily be identified immunochemically because of its distinct antigenicity. In electrophoresis its relative mobility is between the albumin and alpha-1 globulin fractions. Its molecular weight is 64,000, the carbohydrate content is relatively low. The concentration of alpha-foetoprotein gradually decreases during foetal growth. It is not found in normal adult serum, but reappears in most human developing hepatoma. In pooled foetal/newborn serum a concentration of 1 mg/ml has been measured.</p>
<b>Synonyms:</b>	Alpha-1-fetoprotein, Alpha-fetoglobulin, HPAFP
<b>Note:</b>	<b>Adsorption:</b> Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other human serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.