

Product datasheet for **AP33053SU-N**

alpha 1 Fetoprotein (AFP) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ID, IP
Recommended Dilution:	Can be used in precipitating techniques as immunoelectrophoresis and single and double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of alpha-foetoprotein or to determine its concentration. <i>Recommendation for Use:</i> Immunoelectrophoresis: Use 2 µl urine, plasma or equivalent against 120 µl antiserum. In Double Radial Immunodiffusion (Ouchterlony): Use a rosette arrangement with 10 µl antiserum in a 3 mm diameter centre well and 2 µl serum samples (neat and diluted) in 2 mm diameter peripheral wells. <i>Precipitin titre:</i> 1/64 when tested against pooled human amniotic fluid in agar-block immunodiffusion titration.
Reactivity:	Human
Host:	Rabbit
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. Cross-reactivity: The antiserum does not cross react with any other human plasma proteins as tested in geldiffusion 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.
Formulation:	State: Serum State: Lyophilized, Delipidated, Heat inactivated, Stable Whole Serum without preservatives
Reconstitution Method:	Restore by adding 1 ml of sterile distilled water.



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Concentration:	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal goat serum. No foreign proteins added.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	alpha fetoprotein
Database Link:	Entrez Gene 174 Human P02771
Background:	Several foetoproteins have been demonstrated in human foetal serum and amniotic fluid. One of the best studied is the alphafoetoprotein. It can 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.
Synonyms:	Alpha-1-fetoprotein, Alpha-fetoglobulin, HPAFP
Note:	Adsorption: 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.