

AP31079AF-N**Polyclonal Antibody to Transferrin - Azide Free****Alternate names:**

Beta-1 metal-binding globulin, Serotransferrin, Siderophilin

Quantity:

10 mg

Concentration:

10 mg/ml

Background:

Transferrin is a single polypeptide chain glycoprotein belonging to iron binding family of proteins. It has a molecular weight of 81,5 kDa (porcine). It is synthesised in the liver and consists of two domains each having a high affinity reversible binding site for Fe³⁺. The iron is transported in blood and interstitial fluids to sites of use and disposal. Iron/transferrin is essential in haemoglobin synthesis and for certain types of cell division. Serum concentration rises in iron deficiency and pregnancy and falls in iron overload, infection and inflammatory conditions.

Uniprot ID:[P09571](#)**NCBI:**[9823](#)**Host:**

Rabbit

Immunogen:

Purified Transferrin isolated from pooled Swine serum.
Feund's complete adjuvant is used in the first step of the immunization procedure.

Format:

State: Lyophilized hyperimmune IgG fraction
Purification: Hyperimmune antisera with strong precipitating activity are selected for fractionation by Salt Precipitation and purification of the IgG fraction by DEAE-chromatography.
Buffer System: PBS, pH 7.2 without preservatives and foreign proteins
Reconstitution: Restore by adding 1.0 ml of sterile distilled water

Applications:

Can be used as unlabelled primary or secondary reagent for indirect detection techniques, to prepare conjugates with markers of the user's own choice, to prepare an insoluble immunoaffinity adsorbent or a solid phase antibody reagent by coupling to an artificial carrier and as catching or detection antibody in non-isotopic methodology and solid phase immunochemistry.

When applied in any cytochemical or histochemical procedure or solids phase coupling technique, the optimum concentration of the IgG preparation should always be established by titration.

Recommended Dilutions:
Histochemistry: 1/50-1/250.
ELISA and comparable non-precipitating antibody-binding assays: 1/500-1/5,000.
Antibody titre: Precipitin titre 1/32 when tested against pooled normal swine serum in agar-block immunodiffusion titration.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:	The reactivity of the antiserum is restricted to Transferrin as tested in Immuno-electrophoresis and radial immunodiffusion. A characteristic single precipitin line is obtained with normal serum which shows a reaction of identity with the precipitin line with purified Transferrin. Cross-reactivity : Inter-species cross-reactivity is a normal feature of antibodies to serum proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail. Species: Swine. Other species not tested.
Add. Information:	Adsorption: Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.
Storage:	Store lyophilized at 2-8°C and reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer. Avoid Repeated thawing and freezing. Shelf life: one year from despatch.