

AP31078SU-N**Polyclonal Antibody to Transferrin - Serum****Alternate names:**

Beta-1 metal-binding globulin, Serotransferrin, Siderophilin

Quantity:

1 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:[P12346](#)**NCBI:**[NP_001013128](#)**GeneID:**[24825](#)**Host:**

Rabbit

Immunogen:

Purified transferrin isolated from pooled Rat serum.
Freund's complete adjuvant is used in the first step of the immunization procedure.

Format:**State:** Lyophilized, Delipidated, Heat inactivated, Stable Whole**Preservatives:** None**Reconstitution:** Restore by adding 1 ml of sterile distilled water.**Applications:****Immunoprecipitation.**

Intended use In precipitating techniques as Immunoelectrophoresis and single and Double Radial Immunodiffusion to identify the presence Transferrin in Rat serum or other body fluids and to determine its concentration. This antiserum has not been tested in more sensitive assays as nephelometry, ELISA or use in immunohistology, but this does not exclude such use if proper controls are included.

Recommended Dilutions:

Immunoelectrophoresis: Use 2 µl or equivalent against 120 µl antiserum.

Double Radial Immunodiffusion (Ouchterlony): Use a rosette arrangement with 10 µl in a 3 mm diameter center well and 2 µl serum samples (neat and serially diluted) in 2 mm diameter peripheral wells.

Precipitin titre: 1/64 when tested against pooled normal Rat 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, however tested in Double Radial Immunodiffusion a reaction with Mouse Transferrin has been observed. Species: Rat. 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 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. Shelf life: one year from despatch.