

Product datasheet for **AP08134PU-N**

Transferrin (TF) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP
Recommended Dilution:	Suitable for use in Immunoprecipitation and ELISA (1/1,000-1/10,000).
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Purified human transferrin.
Specificity:	This antibody is specific for Transferrin (TF).
Formulation:	PBS, pH 7.4 containing 0.05% Sodium Azide as preservative and 1% BSA as stabilizer. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Protein A Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	transferrin
Database Link:	Entrez Gene 7018 Human P02787



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Background:

Transferrin is a blood plasma protein for iron ion delivery. It is a glycoprotein, which binds iron very tightly but reversibly. Transferrin has a molecular weight of around 80 kilo Daltons and contains 2 specific high affinity Fe (III) binding sites. It is synthesized 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 hemoglobin 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.

When a transferrin protein loaded with iron encounters a transferrin receptor on the surface of a cell (importantly, to erythroid precursors in the bone marrow), it binds to it and is consequently transported into the cell in a vesicle.

Synonyms:

Serotransferrin, Siderophilin