

Transferrin Monoclonal Antibody (HTF-14)

Catalog NumberMA1-19013

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Pig, Rabbit
Host/Isotope	Mouse / IgG1	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	HTF-14		
Immunogen	Purified pig transferrin.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL	ELISA (ELISA)	Assay-dependent
Purification	Protein A	Functional Assay (FN)	Assay-dependent
Storage buffer	PBS, pH 7.4	Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL
Contains	no preservative	Radioimmune Assays (RIA)	Assay-dependent
Storage Conditions	4° C, do not freeze	Western Blot (WB)	1-2 µg/mL
		Immunocytochemistry (ICC/IF)	Assay-dependent

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

This antibody will not cross-react with sheep, canine, equine or bovine. A suggested positive control is placental tissue. Western Blot: non-reducing conditions; Functional Application: Blocking.

Background/Target Information

Transferrins (Tf) are an approximately 80kDa blood plasma glycoprotein synthesized by the liver. They are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Transferrin is the primary blood iron transport protein and under normal conditions; approximately one-third of total blood transferrin contains bound iron. Measurement of blood transferrin levels can be used as an indicator for blood iron-carrying capacity and abnormalities of iron metabolism such as anaemia, iron overload and haemochromatosis. Serum transferrin may also have a further role in stimulating cell proliferation.

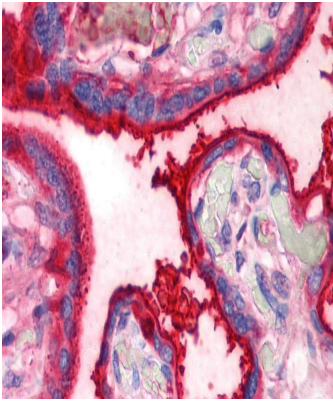
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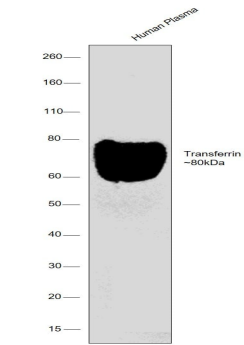
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Product Images For Transferrin Monoclonal Antibody (HTF-14)



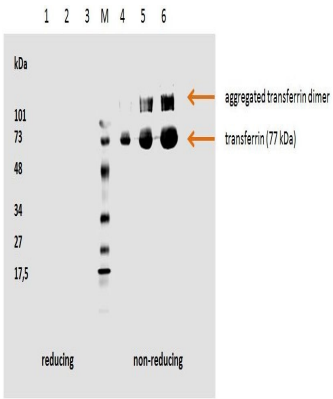
Transferrin Antibody (MA1-19013) in IHC (P)

Immunohistochemistry staining of human placenta (paraffin sections) using anti-transferrin (HTF-14) Monoclonal antibody (Product # MA1-19013).



Transferrin Antibody (MA1-19013) in WB

Western blot was performed using Anti-Transferrin Monoclonal Antibody (HTF-14) (Product # MA1-19013) and a band at ~80 kDa corresponding to Transferrin was observed in Human plasma sample. Whole cell extracts of 2 µL of Human Plasma (Lane 1) was electrophoresed using Novex® NuPAGE® 4-12% % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:500 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



Transferrin Antibody (MA1-19013) in WB

Western blot analysis of Human transferrin detected by mouse HTF-14 Monoclonal antibody (Product # MA1-19013). 1. hTransferrin; 5 µg/well (red. con.); 2. hTransferrin; 3 µg/well (red. con.); 3. hTransferrin; 1 µg/well (red. con.); M Low Range marker (Bio-Rad); 4. hTransferrin; 1 µg/well (non-red. con.); 5. hTransferrin; 3 µg/well (non-red. con.); 6. hTransferrin; 5 µg/well (non-red. con.).

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