

Transferrin Polyclonal Antibody

Catalog NumberPA1-84854

Product data sheet

Details		Species Reactivity	
Size	1 mg	Species reactivity	Human
Host/Isotope	Goat / IgG	Tested Applications	
Class	Polyclonal	ELISA (ELISA)	1:100-1:10,000
Type	Antibody	Western Blot (WB)	1:500
Immunogen	Purified human transferrin.	* 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.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Affinity chromatography		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	4° C, do not freeze		

Product specific information

Goat anti Human Transferrin antibody recognizes human transferrin, an iron binding glycoprotein of approximately 79 kDa.

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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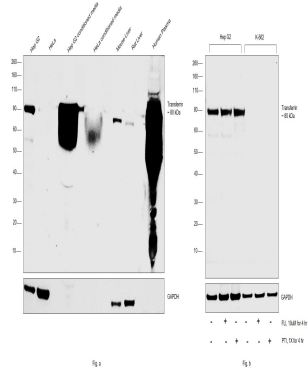
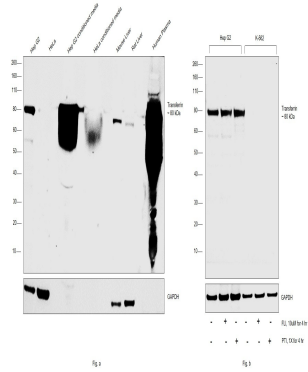
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Transferrin Antibody (PA1-84854)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Western Blot analysis using Anti-Transferrin Polyclonal Antibody (Product # PA1-84854) shows increased expression of Transferrin in Hep G2 treated with secretory blockers in comparison to K-562 which is negative for Transferrin expression along with little or no expression in HeLa and HeLa conditioned media. {RE}

Transferrin Antibody (PA1-84854) in WB

Western blot was performed using Anti-Transferrin Polyclonal Antibody (Product # PA1-84854) and a 80 kDa band corresponding to Transferrin was observed across the samples except in HeLa and HeLa conditioned media in Fig. a and was also observed in Hep G2 cells upon treatment with secretion blockers (FLI-06 and PTI) in Fig. b. The expression of Transferrin was not observed in K-562 as reported in literature. Whole cell extracts of Hep G2 (Lane 1), HeLa (Lane 2), 7 μ L of Hep G2 conditioned media (Lane 3), 7 μ L of HeLa conditioned media (Lane 4), Mouse Liver (Lane 5), Rat Liver (Lane 6) and 2 μ L of Human Plasma (Lane 7) in Fig. a; whole cell extracts (30 μ g lysate) of Hep G2 (Lane 1) Hep G2 treated with FLI-06 (10 μ M for 4hr) (Lane 2), Hep G2 treated with PTI (1X for 4hr) (Lane 3), K-562 (Lane 4), K-562 treated with FLI-06 (10 μ M for 4hr) (Lane 5) and K-562 treated with PTI (1X for 4hr) (Lane 6) were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris Protein 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 Rabbit anti-Goat IgG Heavy Chain, Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27014, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent with Novex® ECL Kit (Product # WP20005).



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