

Transferrin Monoclonal Antibody (F2H8G6)

Catalog Number

MA5-14690

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	ELISA (ELISA)	1 µg/mL
Type	Antibody	Immunoprecipitation (IP)	Assay-dependent
Clone	F2H8G6	Radioimmune Assays (RIA)	Assay-dependent
Immunogen	Human Transferrin	Immunocytochemistry (ICC/IF)	1:100-1:200
Conjugate	Unconjugated	<div>* 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.</div>	
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein A		
Storage buffer	PBS, pH 7.4, with 1mg/mL BSA		
Contains	0.05% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C		

**Product specific information**

MA5-14690 has been successfully used in ELISA, immunofluorescence, and immunoprecipitation, and radioimmune assay applications, and reacts with human samples. MA5-14690 detects Transferrin which has a predicted molecular weight of approximately 67 kDa. Product MA514690 is a smaller package size of MIT0603 (formerly sold as a Seradyn product).

**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.

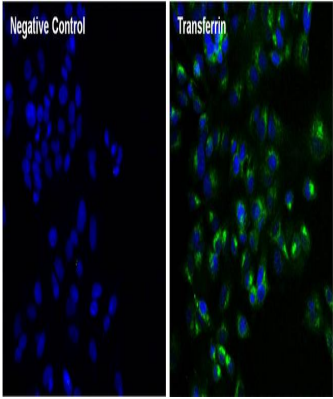
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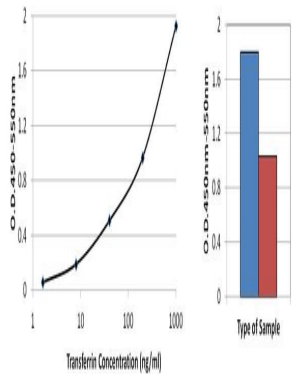
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Product Images For Transferrin Monoclonal Antibody (F2H8G6)



Transferrin Antibody (MA5-14690) in ICC/IF

Immunofluorescent analysis of Transferrin (green) in HepG2 cells. The cells were fixed with formalin for 15 minutes, permeabilized with 0.1% Triton X-100 in TBS for 10 minutes, and blocked with 5% Normal Goat Serum (Product # 31872) for 15 minutes at room temperature. Cells were stained with or without Transferrin monoclonal antibody (Product # MA5-14690), at a dilution of 1:100 overnight at 4C, and then incubated with a DyLight 488 goat anti-mouse IgG secondary antibody (Product # 35503) at a dilution of 1:1000 for 30 minutes at room temperature (both panels, green). Nuclei (both panels, blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ToxInsight at 20X magnification.



Transferrin Antibody (MA5-14690) in ELISA

Sandwich ELISA of Transferrin was performed by coating wells of a 96-well plate with 100  $\mu$ L of an transferrin chicken polyclonal antibody (Product # PA1-9525) diluted to a concentration of 1  $\mu$ g/mL in carbonate/bicarbonate buffer (Product # 28382) overnight at 4C. Wells were blocked with 100  $\mu$ L of StartingBlock T20 (TBS) Blocking Buffer (Product # 28382) for 2 hours, and 100  $\mu$ L of recombinant transferrin protein ranging from 1.6-1000 ng/mL were incubated for 1 hour at room temperature. The plate was washed with 1X TBST (Product # 28360), and 100  $\mu$ L per well of an transferrin mouse monoclonal antibody (Product # MA5-14690) diluted to a concentration of 1  $\mu$ g/mL was added to each well for 1 hour at room temperature. The plate was washed, and 100  $\mu$ L per well of a Streptavidin-HRP (Product # 21126) was incubated for 30 minutes. Detection was performed using 1-Step Ultra TMB Substrate (Product # 34028), followed by Stop Solution (Product # N600). Absorbances were read on a spectrophotometer at 450-550 nm.

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