

ARG63114 anti-Transferrin antibody [HTF-14]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [HTF-14] recognizes Transferrin
Tested Reactivity	Hu, Pig, Rb
Species Does Not React With	Bov, Dog, Hrs, Sheep
Tested Application	ELISA, FuncSt, ICC/IF, IHC-P, RIA, WB
Specificity	The clone HTF-14 recognizes an epitope located in the N-terminal domain of human serum transferrin, a 77 kDa single polypeptide chain glycoprotein (member of the iron binding family of proteins). It is synthesised in the liver and consists of two domains each having a high affinity reversible binding site for Fe ³⁺ .
Host	Mouse
Clonality	Monoclonal
Clone	HTF-14
Isotype	IgG1
Target Name	Transferrin
Species	Pig
Immunogen	Purified porcine transferrin.
Conjugation	Un-conjugated
Alternate Names	Beta-1 metal-binding globulin; Siderophilin; Transferrin; PRO1557; TFQTL1; Serotransferrin; PRO2086

Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	FuncSt	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-P	10 µg/ml
	RIA	Assay-dependent
	WB	1 - 2 µg/ml
	Application Note WB: Under non-reducing condition. Functional studies: The clone HTF-14 blocks binding of transferrin to the receptor. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	IHC-P: Placenta	

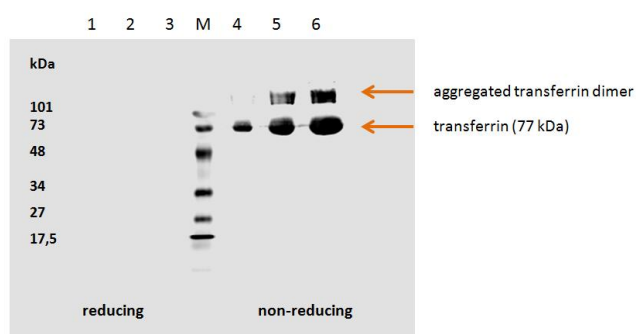
Properties

Form	Liquid
Purification	Purified from ascites by precipitation methods and ion exchange chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background	Transferrin is a monomeric glycoprotein of approximately 77 kDa, which serves as an iron-transporter. In normal plasma, transferrin has a concentration of 25-50 μmol / liter, and is usually about one-third saturated with iron, thus providing a large buffering capacity in case of an acute increase in plasma iron levels. Cells take up transferrin-iron complexes (holotransferrin) using transferrin receptor dimers. Upon binding of holotransferrin, the receptor is internalized by clathrin-mediated endocytosis. Acidification of endosomes by vesicular membrane proton pumps leads to dissociation of iron ions, whereas transferrin (apotransferrin) remains associated with its receptor (CD71) and recycles to the cell surface, where apotransferrin is released upon exposure to normal pH. Internalization of labeled transferrin thus represents an usefull approach to study endocytosis. Serum concentration rises in iron deficiency and pregnancy and falls in iron overload, infection and inflammatory conditions. Iron/transferrin complex is essential in haemoglobin synthesis and for certain types of cell division.
Research Area	Cell Biology and Cellular Response antibody; Controls and Markers antibody; Signaling Transduction antibody
Calculated Mw	77 kDa

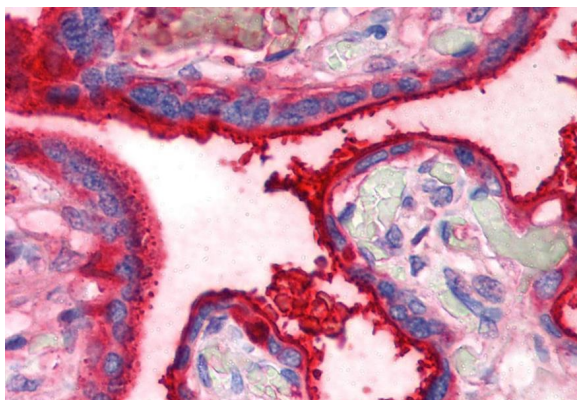
Images



ARG63114 anti-Transferrin antibody [HTF-14] WB image

Western blot: Human Transferrin with different lodings. 1) 5 μg , 2) 3 μg , 3) 1 μg , M) marker, 4) 1 μg , 5) 3 μg , and 6) 5 μg stained with ARG63114 anti-Transferrin antibody [HTF-14].

Lane 1-3: reducing condition. Lane 4-6: non-reducing condition.



ARG63114 anti-Transferrin antibody [HTF-14] IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue stained with ARG63114 anti-Transferrin antibody [HTF-14].