

Mouse anti-Transferrin, clone HTF-14 (Monoclonal)

Clone no. HTF-14

MONOSAN

Product name	Mouse anti-Transferrin, clone HTF-14 (Monoclonal)
Host	Mouse
Applications	WB, IHC-P, ICC, ELISA,
Species reactivity	Human, Pig, Rabbit
Conjugate	-
Immunogen	Purified porcine transferrin.
Isotype	IgG1
Clonality	Monoclonal
Clone number	HTF-14
Size	0.1 mg
Concentration	1 mg/ml
Format	Purified by protein-A affinity chromatography.
Storage buffer	Phosphate buffered saline (PBS) solution with 15 mM sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

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 useful 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.

References

1. Bartek J., et al., Immunol. Lett. 1982; 7: 231.
2. Bartek, J., et al., Br. J. Haematol 1985; 59: 435-441.
3. Nováková, M., et al., Cell Motil Cytoskeleton 1996;33(1):38-51
4. -
5. -

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