

Monoclonal Anti- Transferrin

Catalog# BMA1042

Lot # Check on the product label

Size 100µg

Isotype IgG2b

Clone # T25

Host Mouse

Reactivity

Human

Product Form Liquid

Purification Protein A or Protein G purified

Immunogen

Purified human transferrin.

Recommend Application

Western Blot (1:2000)

Other applications have not been tested.

The optimal dilutions should be determined by end user.

Storage Buffer

In TBS (pH7.4), 0.5% BSA, 40% Glycerol and 0.05% Sodium Azide.

Storage Instruction

Store at 4°C after thawing (1 week). Aliquot and store at -20°C for long term (at least one year).

Avoid repeated freeze and thaw cycles.

Background

Transferrins are iron-binding blood plasma glycoproteins with a molecular mass of about 80 kD. It is a circulating serum protein responsible for delivering iron to

cells. ^[1] When not bound to iron, it is known as "apotransferrin". Transferrin is also associated with the innate immune system. It is found in the mucosa and binds iron, thus creating an environment low in free iron that impedes bacterial survival in a process called iron withholding. The level of transferrin decreases in inflammation. ^[2] Transferrin imbalance can have serious health effects for those with low or high serum transferrin levels. ^[3]

Reference

1. Hershberger, C. L., Larson, J. L., Arnold, B., Rosteck, P. R., Jr., Williams, P., DeHoff, B., Dunn, P., O'Neal, K. L., Riemen, M. W., Tice, P. A., Crofts, R., Ivancic, J. A cloned gene for human transferrin. *Ann. N. Y. Acad. Sci.* 646: 140-154, 1991.
2. Ritchie RF, Palomaki GE, Neveux LM, Navolotskaia O, Ledue TB, Craig WY (1999). "Reference distributions for the negative acute-phase serum proteins, albumin, transferrin and transthyretin: a practical, simple and clinically relevant approach in a large cohort". *J. Clin. Lab. Anal.* 13 (6): 273–9.
3. Macedo MF, de Sousa M (March 2008). "Transferrin and the transferrin receptor: of magic bullets and other concerns". *Inflammation & Allergy Drug Targets* 7 (1): 41–52.

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Chongqing Biospes Co., Ltd Tel: +86-23-67567091 Fax: +86-23-67745923

Room 27-2, Building 7, No. 15, Paradise Walk, Jiangbei District, Chongqing, 400020, China

www.biospes.com