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Mouse anti Transferrin Receptor (CD71)

Catalogue number: **MUB1813P**

Clone	66IG10
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse (Balb/c)
Species reactivity	Human
Application	Flow cytometry Immunoblotting Immunohistochemistry (frozen) Immunoprecipitation

Background

Transferrin receptor protein 1 (TfR1) also known as CD71 (Cluster of Differentiation 71) is a protein that in Humans is encoded by the TFRC gene. CD71 plays a critical role in cell proliferation by controlling the supply of iron, which is essential for many metabolic pathways, through the binding and endocytosis of transferrin, the major iron-carrying protein. The expression of CD71 is regulated at the post-transcriptional level through the control of mRNA stability and is closely linked to intracellular iron levels. Nitric oxide can affect CD71 expression independently of intracellular iron concentration by activating proteins which then stabilize CD71 mRNA. Expression of CD71, or the transferrin receptor, is very low on resting leukocytes but is upregulated upon activation reflecting the iron dependence of activation. In other tissues, CD71 is expressed on most dividing cells and also on brain endothelium and alveolar macrophage. The ligand is the Serum iron transport protein transferrin. CD71 antibodies are used as an indicator of proliferation in the typing of lymphomas and leukemias.

Source

66IG10 is a Mouse monoclonal IgG1 antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with Human T-cells.

Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

Distributors

For Purchasing Information, please contact your local distributor

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66IG10 is useful for western blot (on non reduced antigens) and immunoprecipitation, flow cytometry and immunohistochemistry on frozen sections. Optimal antibody dilution should be determined by titration.

Specificity

66IG10, raised anti Human thymocytes (T-cells) was found to be directed anti the Human transferrin receptor. This antibody reacts with the transferrin receptor, a 180-190 kD transmembrane glycoprotein which exists as a 95 kD homodimer with interchain disulfide bond.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

1. K. Moolenaar et al. Cancer research 50,1102-1106, Feb 15 1990.
2. Van de Rijna M, Geurts van Kessel AHM, Kroezen V, van Agthoven AJ, Verstijnen K, Terhorst C, Hilgers J: Cytogenet Cell Genet 1983;36:525-531 (DOI: 10.1159/000131967).

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.