

Product datasheet

Anti-Transferrin Receptor antibody [MEM-189] ab1086

★★★★★ [4 Abreviews](#) [31 References](#) [1 Image](#)

Overview

Product name	Anti-Transferrin Receptor antibody [MEM-189]
Description	Mouse monoclonal [MEM-189] to Transferrin Receptor
Host species	Mouse
Specificity	The antibody MEM-189 reacts with CD71 antigen (transferrin receptor), a 95 kDa type II homodimeric transmembrane glycoprotein expressed on activated B and lymphocytes, macrophages and erythroid precursors; it is lost on resting blood leukocytes. The antibody MEM-189 does not block binding of transferrin to the receptor.
Tested applications	Suitable for: Flow Cyt Unsuitable for: ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to Human Transferrin Receptor. KG1 human acute myelogenous leukaemia cell line
Positive control	Flow Cyt: K562 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 8.0 Preservative: 0.097% Sodium azide Constituent: Tris buffer
Purity	Protein A purified
Clonality	Monoclonal

Clone number MEM-189
Isotype IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab1086 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt	★★★★★ (1)	Use a concentration of 2 µg/ml.

Application notes Is unsuitable for ICC/IF.

Target

Function Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system (By similarity). A second ligand, the hereditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site. Positively regulates T and B cell proliferation through iron uptake (PubMed:26642240).
(Microbial infection) Acts as a receptor for new-world arenaviruses: Guanarito, Junin and Machupo virus.

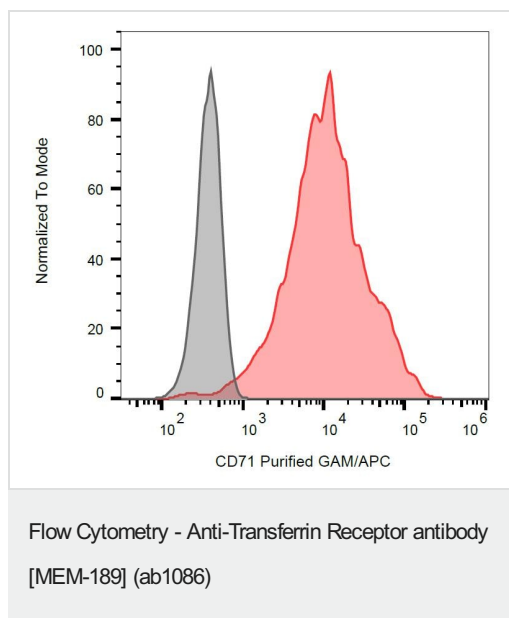
Involvement in disease Immunodeficiency 46

Sequence similarities Belongs to the peptidase M28 family. M28B subfamily.
Contains 1 PA (protease associated) domain.

Post-translational modifications N- and O-glycosylated, phosphorylated and palmitoylated. The serum form is only glycosylated. Proteolytically cleaved on Arg-100 to produce the soluble serum form (sTfR).
Palmitoylated on both Cys-62 and Cys-67. Cys-62 seems to be the major site of palmitoylation.

Cellular localization Secreted and Cell membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



Flow Cytometry analysis of K562 cells labelling Transferrin with ab1086 at 2 µg/ml.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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