

Biotin Anti-Transferrin Receptor antibody [MEM-75] ab28116

Overview

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| Product name | Biotin Anti-Transferrin Receptor antibody [MEM-75] |
| Description | Biotin Mouse monoclonal [MEM-75] to Transferrin Receptor |
| Host species | Mouse |
| Conjugation | Biotin |
| Specificity | ab28116 recognises CD71 antigen (transferrin receptor). |
| Tested applications | Suitable for: IP, Flow Cyt, WB |
| Species reactivity | Reacts with: Human |
| Immunogen | Tissue, cells or virus corresponding to Human Transferrin Receptor. NALM-6 human pre-B cell line |
| General notes | <p>ab28116 does not block binding of transferrin to the receptor.</p> <p>The purified antibody is conjugated with Biotin-LC-NHS.</p> <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

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| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| Storage buffer | <p>pH: 7.40</p> <p>Preservative: 0.097% Sodium azide</p> <p>Constituent: PBS</p> |
| Purity | Protein A purified |
| Primary antibody notes | ab28116 does not block binding of transferrin to the receptor. |

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|---------------------|------------|
| Clonality | Monoclonal |
| Clone number | MEM-75 |
| Isotype | IgG1 |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab28116 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 |
|-------------|-----------|---|
| IP | | Use at an assay dependent concentration. |
| Flow Cyt | | Use at an assay dependent concentration. ab18434 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |
| WB | | Use at an assay dependent concentration. |

Target

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| 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. |

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