

Product datasheet

FITC Anti-Transferrin Receptor antibody [OX-26] ab33927

1 References

Overview

Product name	FITC Anti-Transferrin Receptor antibody [OX-26]
Description	FITC Mouse monoclonal [OX-26] to Transferrin Receptor
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Specificity	Recognizes the rat transferrin receptor (CD71). It labels dividing cells of various types but also binds to a number of non-dividing normal tissues and endothelium of brain capillaries.
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Rat
Immunogen	Tissue, cells or virus corresponding to Rat Transferrin Receptor. PHA-activated rat lymphocytes.
Positive control	PHA-activated rat lymphocytes.
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.
Storage buffer	pH: 7.40 Preservative: 0.09% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein G purified
Clonality	Monoclonal
Clone number	OX-26

Myeloma	NS1
Isotype	IgG2a

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab33927 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		Use at an assay dependent concentration. Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. ab91362 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

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.

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