

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

## 1 References

### Overview

<b>Product name</b>	FITC Anti-Transferrin Receptor antibody [OX-26]
<b>Description</b>	FITC Mouse monoclonal [OX-26] to Transferrin Receptor
<b>Host species</b>	Mouse
<b>Conjugation</b>	FITC. Ex: 493nm, Em: 528nm
<b>Specificity</b>	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.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Rat
<b>Immunogen</b>	Tissue, cells or virus corresponding to Rat Transferrin Receptor. PHA-activated rat lymphocytes.
<b>Positive control</b>	PHA-activated rat lymphocytes.
<b>General notes</b>	<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&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: PBS, 1% BSA</p>
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	OX-26

<b>Myeloma</b>	NS1
<b>Isotype</b>	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
<b>Flow Cyt</b>		Use at an assay dependent concentration. Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. <b>ab91362</b> - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

## Target

<b>Function</b>	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.
<b>Involvement in disease</b>	Immunodeficiency 46
<b>Sequence similarities</b>	Belongs to the peptidase M28 family. M28B subfamily. Contains 1 PA (protease associated) domain.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Secreted and Cell membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

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

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