


Anti-Transferrin Receptor antibody [EPR4012] ab108985

重组 RabMAb

★★★★☆ **4 Abreviews** **3 References** **3 图像**

概述

产品名称	Anti-Transferrin Receptor抗体[EPR4012]
描述	兔单克隆抗体[EPR4012] to Transferrin Receptor
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB 不适用于: ICC/IF
种属反应性	与反应: Human 预测可用于: Mouse 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Human placenta, TF-1, HeLa and A549 cell lysates
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR4012
同种型	IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab108985于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 90 kDa (predicted molecular weight: 84 kDa).

应用说明

Is unsuitable for ICC/IF.

靶标

功能

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.

疾病相关

Immunodeficiency 46

序列相似性

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

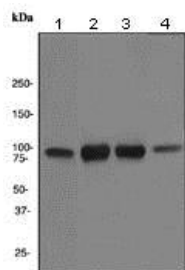
翻译后修饰

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.

细胞定位

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

图片



Western blot - Anti-Transferrin Receptor antibody [EPR4012] (ab108985)

All lanes : Anti-Transferrin Receptor antibody [EPR4012] (ab108985) at 1/1000 dilution

Lane 1 : Human placenta cell lysate

Lane 2 : TF-1 cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : A549 cell lysate

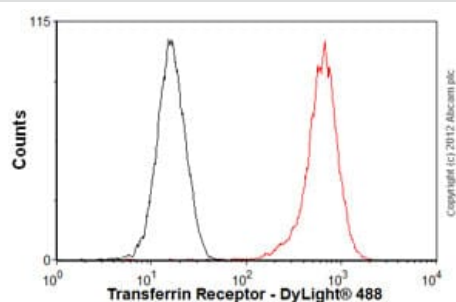
Lysates/proteins at 10 µg per lane.

Secondary

Lanes 1 & 4 : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 84 kDa

Observed band size: 90 kDa



Flow Cytometry (Intracellular) - Anti-Transferrin Receptor antibody [EPR4012] (ab108985)

Overlay histogram showing Jurkat cells stained with ab108985 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab108985, 1/100) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Transferrin Receptor antibody [EPR4012]
(ab108985)

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

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