

Product datasheet

Anti-Transferrin antibody [EPR2932(2)] - Serum Loading Control ab109503

Recombinant RabMAb

★★★★★ 2 Abreviews 4 References 6 Images

Overview

Product name	Anti-Transferrin antibody [EPR2932(2)] - Serum Loading Control
Description	Rabbit monoclonal [EPR2932(2)] to Transferrin - Serum Loading Control
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P Unsuitable for: IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human plasma lysates; IHC-P: human liver tissue; Flow Cyt (intra): HepG2 cells.
General notes	<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> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</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 long

term. Avoid freeze / thaw cycle.

Storage buffer

pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity

Protein A purified

Clonality

Monoclonal

Clone number

EPR2932(2)

Isotype

IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab109503 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 (Intra)		1/50.
WB	★★★★★ (2)	1/1000 - 1/10000. Predicted molecular weight: 77 kDa.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. Heat up to 98 degrees C, below boiling, and then let cool for 10-20 min. See IHC antigen retrieval protocols .

Application notes

Is unsuitable for IP.

Target

Function

Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation.

Tissue specificity

Expressed by the liver and secreted in plasma.

Involvement in disease

Defects in TF are the cause of atransferrinemia (ATRAF) [MIM:209300]. Atransferrinemia is rare autosomal recessive disorder characterized by iron overload and hypochromic anemia.

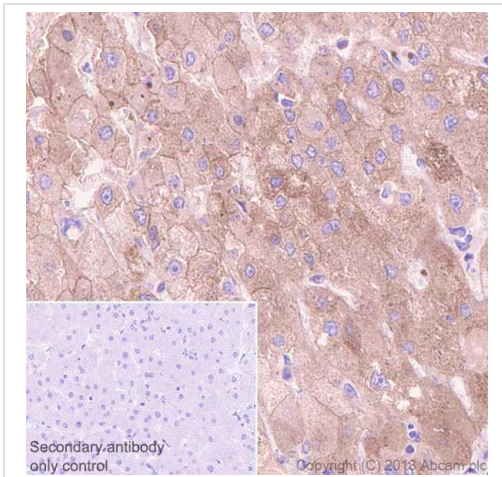
Sequence similarities

Belongs to the transferrin family.
Contains 2 transferrin-like domains.

Cellular localization

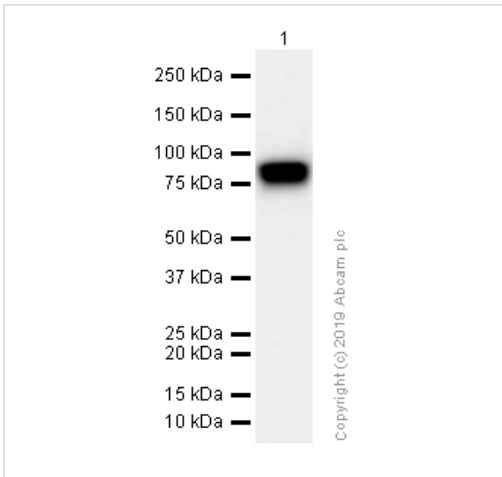
Secreted.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue sections labeling Transferrin with Purified ab109503 at 1:300 dilution (2.19 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Purified ImmunoHistoProbe one step HRP Polymer (ready to use) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Transferrin antibody [EPR2932(2)] - Serum Loading Control (ab109503)



Anti-Transferrin antibody [EPR2932(2)] - Serum Loading Control (ab109503) at 1/10000 dilution (Purified) + Human plasma lysates at 15 µg

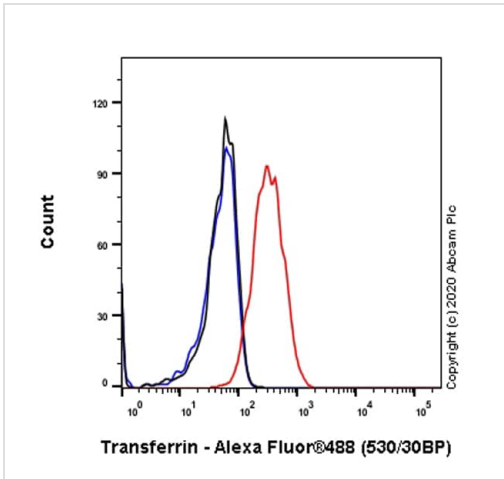
Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 77 kDa

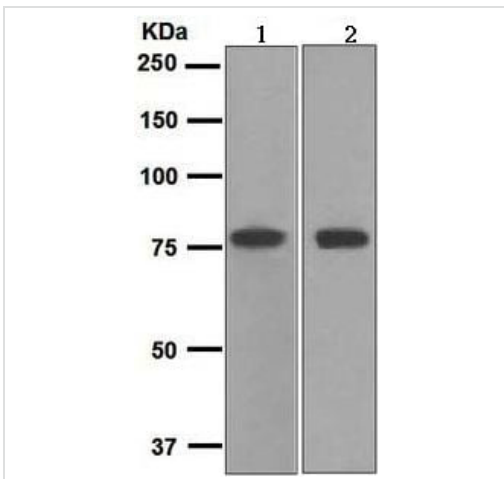
Observed band size: 77 kDa

Western blot - Anti-Transferrin antibody [EPR2932(2)] - Serum Loading Control (ab109503)



Flow Cytometry (Intracellular) - Anti-Transferrin antibody [EPR2932(2)] - Serum Loading Control (ab109503)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HepG2 (Human hepatocellular carcinoma epithelial cell) cells labelling Transferrin with ab109503 at 1/50 dilution (1µg) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Western blot - Anti-Transferrin antibody [EPR2932(2)] - Serum Loading Control (ab109503)

All lanes : Anti-Transferrin antibody [EPR2932(2)] - Serum Loading Control (ab109503) at 1/1000 dilution (unpurified)

Lane 1 : fetal liver lysate

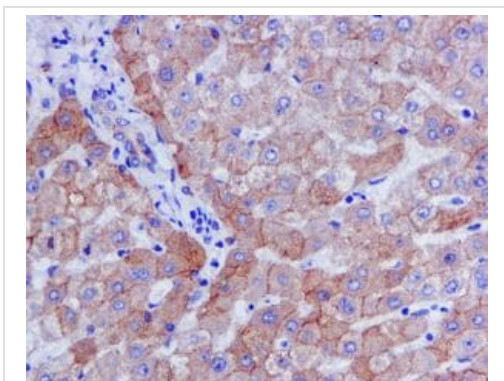
Lane 2 : prostate cancer lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Standard HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 77 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Transferrin antibody [EPR2932(2)] - Serum Loading Control (ab109503)

Immunohistochemical analysis of Transferrin expression in formalin-fixed, paraffin-embedded Human liver tissue, using unpurified ab109503 at 1/250 dilution.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

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 antibody [EPR2932(2)] - Serum

Loading Control (ab109503)

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

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