

Product datasheet

Anti-Transferrin Receptor 2/TFR2 antibody [EPR15322] ab185550

Recombinant RabMAb

★ ★ ★ ★ ★ 1 Abreviews 1 References 5 Images

Overview

Product name	Anti-Transferrin Receptor 2/TFR2 antibody [EPR15322]
Description	Rabbit monoclonal [EPR15322] to Transferrin Receptor 2/TFR2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human Transferrin Receptor 2/TFR2 aa 150-300. The exact sequence is proprietary. Database link: Q9UP52
Positive control	HepG2 and TF-1 cell lysates; Human fetal liver lysate; Human liver tissue.
General notes	

This product was previously labelled as Transferrin Receptor 2

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™

guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

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: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15322
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab185550** 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
WB		1/1000 - 1/10000. Detects a band of approximately 97-105 kDa (predicted molecular weight: 89 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	Mediates cellular uptake of transferrin-bound iron in a non-iron dependent manner. May be involved in iron metabolism, hepatocyte function and erythrocyte differentiation.
Tissue specificity	Predominantly expressed in liver. While the alpha form is also expressed in spleen, lung, muscle, prostate and peripheral blood mononuclear cells, the beta form is expressed in all tissues tested, albeit weakly.

Involvement in disease

Defects in TFR2 are a cause of hemochromatosis type 3 (HFE3) [MIM:604250]. HFE3 is a disorder of iron hemostasis resulting in iron overload and has a phenotype indistinguishable from that of hereditary hemochromatosis (HH). HH is characterized by abnormal intestinal iron absorption and progressive increase of total body iron, which results in midlife in clinical complications including cirrhosis, cardiopathy, diabetes, endocrine dysfunctions, arthropathy, and susceptibility to liver cancer. Since the disease complications can be effectively prevented by regular phlebotomies, early diagnosis is most important to provide a normal life expectancy to the affected subjects.

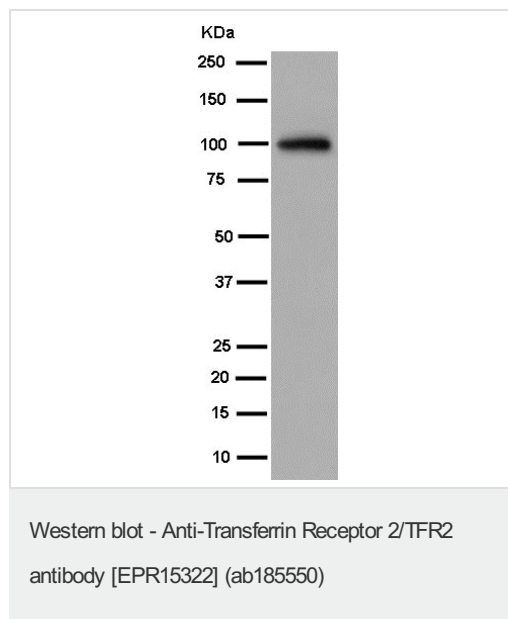
Sequence similarities

Belongs to the peptidase M28 family. M28B subfamily.

Cellular localization

Cell membrane and Cytoplasm. Lacks the transmembrane domain. Probably intracellular.

Images

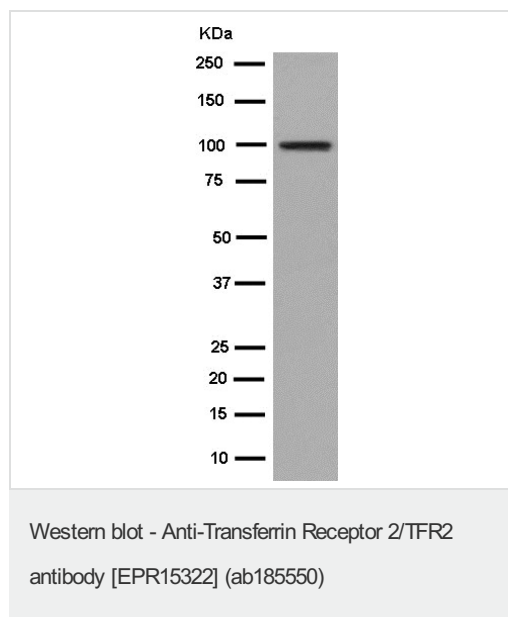


Anti-Transferrin Receptor 2/TFR2 antibody [EPR15322] (ab185550) at 1/5000 dilution + TF-1 cell lysate at 20 μ g

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 89 kDa

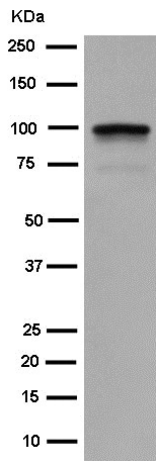


Anti-Transferrin Receptor 2/TFR2 antibody [EPR15322] (ab185550) at 1/5000 dilution + HepG2 cell lysate at 10 μ g

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 89 kDa



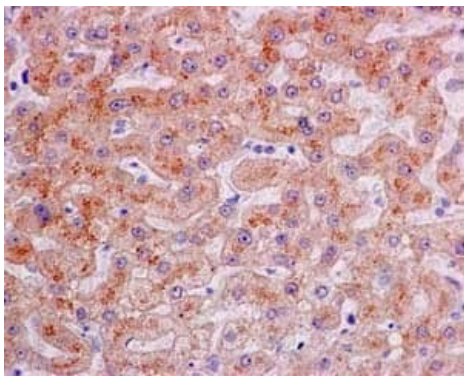
Western blot - Anti-Transferrin Receptor 2/TFR2 antibody [EPR15322] (ab185550)

Anti-Transferrin Receptor 2/TFR2 antibody [EPR15322] (ab185550) at 1/20000 dilution + Human fetal liver lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 89 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Transferrin Receptor 2/TFR2 antibody [EPR15322] (ab185550)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling Transferrin Receptor 2/TFR2 with ab185550 at 1/500 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Transferrin Receptor 2/TFR2 antibody [EPR15322] (ab185550)

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

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