

Datasheet for ABIN3043419
anti-Transferrin antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	Transferrin (TF)
Binding Specificity:	AA 20-49, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Serotransferrin(TF) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human Transferrin (20-49aa VPDKTVRWCAVSEHEATKCQSFRDHMKSVI), different from the related mouse and rat sequences by five amino acids.
Sequence:	VPDKTVRWCA VSEHEATKCQ SFRDHMKSVI
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Serotransferrin(TF) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: transferrin Protein Name: Serotransferrin

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Transferrin (TF)

Alternative Name: Transferrin ([TF Products](#))

Background: Transferrins are iron-binding blood plasma glycoproteins that control the level of free iron in biological fluids. In humans, it is encoded by the TF gene. Transferrin consists of a polypeptide chain containing 679 amino acids in humans. The protein is composed of alpha helices and beta sheets to form two domains. The N- and C- terminal sequences are represented by globular lobes and between the two lobes is an iron-binding site. Transferrin is a glycoprotein that binds iron very tightly but reversibly. Although iron bound to transferrin is less than 0.1 % (4 mg) of the total body iron, it is the most important iron pool, with the highest rate of turnover (25 mg/24 h). And Transferrin has a molecular weight of around 80 kDa and contains 2 specific high-affinity Fe(III) binding sites. The affinity of transferrin for Fe(III) is extremely high (10^{23} M⁻¹ at pH 7.4) but decreases progressively with decreasing pH below neutrality.

Synonyms: Apotransferrin antibody|Beta 1 metal binding globulin antibody|Beta-1 metal-binding globulin antibody|DKFZp781D0156 antibody|PRO1400 antibody|PRO1557 antibody|PRO2086 antibody|Serotransferrin antibody|Serotransferrin precursor antibody|Siderophilin antibody|TF antibody|TFQTL1 antibody|Transferin antibody|Transferrin antibody

Gene ID: 7018

UniProt: [P02787](#)

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

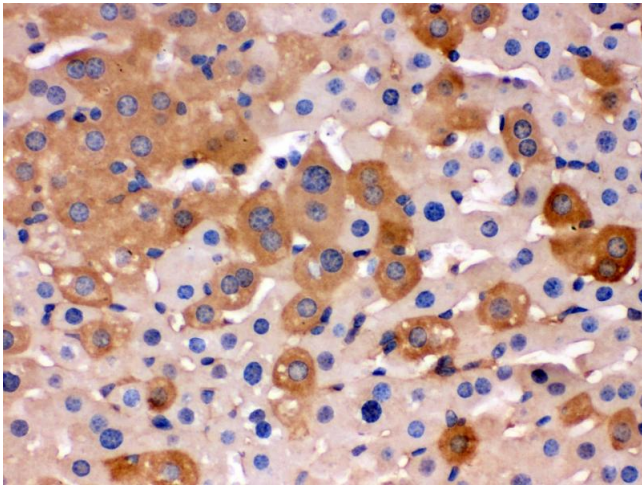
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Liu, Hong, Li, Ren, Wang, Xu, Shi, Xu: "A Cross Talk Between BRG1 and Males Absent on the First Contributes to Reactive Oxygen Species Production in a Mouse Model of Nonalcoholic Steatohepatitis." in: **Antioxidants & redox signaling**, (2018) ([PubMed](#)).

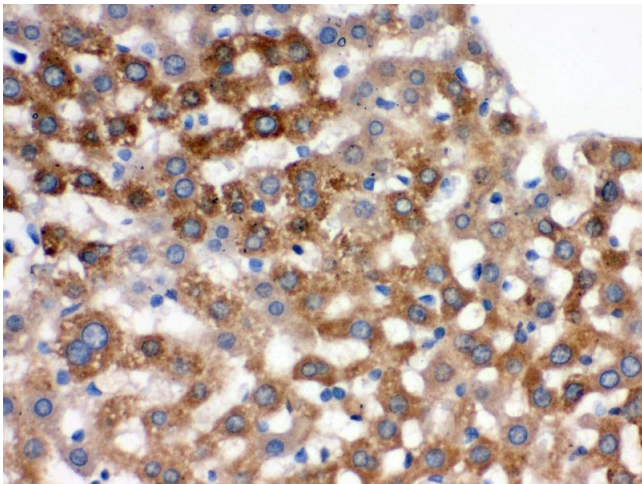
Meyer, Fredette, Daniel, Sharma, Amann, Arterburn, Barton, Prossnitz: "Obligatory role for GPER in cardiovascular aging and disease." in: **Science signaling**, Vol. 9, Issue 452, pp. ra105, (2017) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



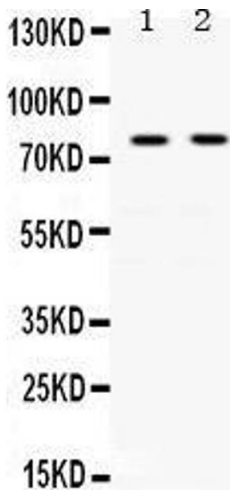
Immunohistochemistry (Paraffin-embedded Sections)

Image 1.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2.



Western Blotting

Image 3. Observed bind size: 77KD

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043419.