

Datasheet for ABIN3042796

anti-Transferrin antibody (AA 20-698)



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Overview

Quantity:	100 µg
Target:	Transferrin (TF)
Binding Specificity:	AA 20-698
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Transferrin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Transferrin/TF Antibody Picoband®
Immunogen:	Oryza sativa-derived human Transferrin recombinant protein (Position: V20-P698).
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, ELISA in Human. Gene Name: transferrin Protein Name: Serotransferrin(Transferrin)
Purification:	Immunogen affinity purified.

Target Details

Target:	Transferrin (TF)
Abstract:	TF Products
Background:	Synonyms: Serotransferrin;Transferrin;Beta-1 metal-binding globulin;Siderophilin;TF;PRO1400; Tissue Specificity: Expressed by the liver and secreted in plasma. 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. In humans, transferrin consists of a polypeptide chain containing 679 amino acids. 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). 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 (1023 M⁻¹ at pH 7.4) but decreases progressively with decreasing pH below neutrality. Sequence Similarities: Belongs to the transferrin family.
Molecular Weight:	77 kDa
UniProt:	P02787
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Mouse Flow Cytometry(Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Asada-Senju, M., Maeda, T., Sakata, T., Hayashi, A., Suzuki, T.Molecular analysis of the transferrin gene in a patient with hereditary hypotransferrinemia.J. Hum. Genet. 47: 355-359, 2002. 2. Delanghe, J., Verstraelen, H., Pynaert, I., Debels, L., Taes, Y., Verhasselt, B., De Henauw, S., Temmerman, M.Human transferrin G277S mutation and iron deficiency in pregnancy. (Letter)Brit. J. Haemat. 132: 249-250, 2005. 3. Pang, H., Koda, Y., Soejima, M., Kimura, H.Identification of a mutation (A1879G) of transferrin from cDNA prepared from peripheral blood cells.Ann. Hum. Genet. 62: 271-274, 1998.
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 and 0.2 mg Na₂HPO₄.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in: Da, Zhuo, Qian: "MCPIP is induced by cholesterol and participated in cholesterol-caused DNA damage in HUVEC." in: **International journal of clinical and experimental pathology**, Vol. 8, Issue 9, pp. 10625-34, (2016) ([PubMed](#)).

Wang, Hu, Tang, Wang, Sun, Chen, Yin, Xue, Sun: "Effect Comparison of Both Iron Chelators on Outcomes, Iron Deposit, and Iron Transporters After Intracerebral Hemorrhage in Rats." in: **Molecular neurobiology**, (2015) ([PubMed](#)).

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Liang, Zhang, Zhao, Li, Yang, Liang, Ceng: "A study of the ultrasound-targeted microbubble destruction based triplex-forming oligodexinucleotide delivery system to inhibit tissue factor expression." in: **Molecular medicine reports**, Vol. 11, Issue 2, pp. 903-9, (2014) ([PubMed](#)).

Zhu, Lv, Chen, Wang, Zhong: "Protective effect and mechanism of sodium tanshinone II A sulfonate on microcirculatory disturbance of small intestine in rats with sepsis." in: **Journal of Huazhong University of Science and Technology. Medical sciences = Hua zhong ke ji da xue**

xue bao. Yi xue Ying De wen ban = Huazhong keji daxue xuebao. Yixue Yingdewen ban, Vol. 31, Issue 4, pp. 441-5, (2011) ([PubMed](#)).

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

Images



Western Blotting

Image 1. Western blot analysis of Transferrin using anti-Transferrin antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane : Recombinant Human Transferrin Protein 0.5ng After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Transferrin antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Transferrin at approximately 76KD. The expected band size for Transferrin is at 76KD.