

Anti-Transferrin/TF Antibody Picoband® HRP Conjugated

Catalog Number: PB9827-HRP

About TF

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.

Overview

Product Name	Anti-Transferrin/TF Antibody Picoband® HRP Conjugated
Reactive Species	Human, Mouse, Rat
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P02787

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Transferrin, different from the related mouse and rat sequences by five amino acids.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	HRP
Suggested Dilutions	The intended application should be selected according to the customer's experimental requirements.

7 Publications Citing This Product

1. PubMed ID: 34103620, Xiang Y,Zheng Y,Liu S,Liu G,Li Z,Dong W.Comparison of the sensitivity of Western blotting between PVDF and NC membranes.Sci Rep.2021 Jun 8;11(1):12022.doi:10.1038/s41598-021-91521-8.PMID:34103620;PMCID:PMC8187435.

2. PubMed ID: 21823002, Zhu W, Lv Q, Chen H, Wang Z, Zhong Q. J Huazhong Univ Sci Technolog Med Sci. 2011 Aug;31(4):441-5. Doi: 10.1007/S11596-011-0470-8. Epub 2011 Aug 7. Protective Effect And Mechanism Of Sodium Tanshinone li A Sulfonate On Microcirculatory Disturbance...

3. PubMed ID: 26617772, MCPiP is induced by cholesterol and participated in cholesterol-caused DNA damage in HUVEC

Visit bosterbio.com/anti-transferrin-picoband-trade-antibody-pb9827-boster.html to see all 7 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Transferrin/TF Antibody - HRP

For Research Use Only. Not for use in diagnostic procedures.