

## TFRC Rabbit pAb

Catalog Number: bs-0988R

Target Protein: TFRC

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:50-200), Flow-Cyt (1µg /Test)

Reactivity: Human, Mouse (predicted:Rat, Pig, Cow, Dog, GuineaPig, Horse)

Predicted MW: 74/85 kDa

Entrez Gene: 7037

Swiss Prot: P02786

Source: KLH conjugated synthetic peptide derived from human Transferrin receptor: 621-720/760.

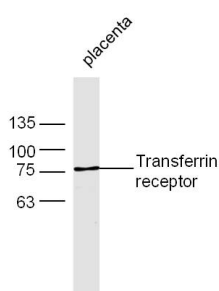
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

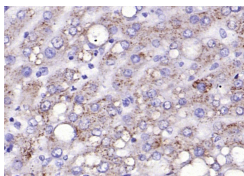
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015]

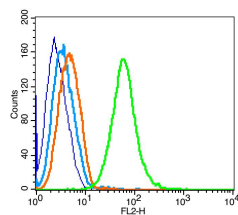
### VALIDATION IMAGES



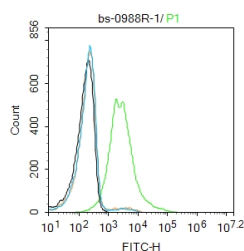
Sample: Placenta (Mouse) Lysate at 40 ug  
Primary: Anti-CD71/Transferrin receptor (bs-0988R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 74/85 kD  
Observed band size: 75 kD



Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TFRC ) Polyclonal Antibody, Unconjugated (bs-0988R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit (sp-0023) instructions and DAB staining.



Blank control(blue):Raji(fixed with 2% paraformaldehyde (10 min)). Primary Antibody:Rabbit Anti- CD71 antibody(bs-0988R), Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange), used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.



Blank control:K562. Primary Antibody (green line): Rabbit Anti-CD71 antibody (bs-0988R) Dilution: 1µg/10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5µg/test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

## PRODUCT SPECIFIC PUBLICATIONS

**[IF=10.787]** Limin Shi. et al. FoxO1 regulates adipose transdifferentiation and iron influx by mediating Tgfβ1 signaling pathway. REDOX BIOL. 2023 Jul;63:102727 WB ; Mouse . 37156218

**[IF=11.4]** Jing Zhao. et al. Differentiation of intestinal stem cells toward goblet cells under systemic iron overload stress are associated with inhibition of Notch signaling pathway and ferroptosis. REDOX BIOL. 2024 Jun;72:103160 WB ; Mouse . 38631120

**[IF=7.9]** Yu-Sheng Shi. et al. Dendrobine rescues cognitive dysfunction in diabetic encephalopathy by inhibiting ferroptosis via activating Nrf2/GPX4 axis. PHYTOMEDICINE. 2023 Jul;154993 WB ; Mouse . 37567006

**[IF=5.4]** Cuiping Xu. et al. Comparison of the components of fresh Panax notoginseng processed by different methods and their anti-anemia effects on cyclophosphamide-treated mice. J ETHNOPHARMACOL. 2024 Apr;118148 IF ; Mouse . 38583734

**[IF=3.347]** Song Q et al. Astragaloside IV protects against retinal iron overload toxicity through iron regulation and the inhibition of MAPKs and NF-κB activationToxicol Appl Pharmacol.2021 Jan 1;410:115361. WB ; Human . 33285147