

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TfR2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human TfR1 or recombinant mouse TfR2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 353816
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TfR2 Arg105-Phe801 Accession # Q9UP52
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Transferrin Receptor 2 (TfR2) is an iron-binding protein that is homologous to the transferrin receptor. Lack of active TfR2 has been associated with a rare form of hemochromatosis. The TfR2 α isoform is a type 2 transmembrane protein that is expressed in the liver and modulates hepcidin production in response to iron. It forms a 215 kDa disulfide-linked homodimer that is presumably glycosylated. The TfR2 β isoform lacks the intracellular, transmembrane and part of the extracellular regions and is expressed ubiquitously. The extracellular portion of human TfR2 shares 86% aa identity with mouse.

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