

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TfR2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 353810
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 0.2 mg/mL in a saline solution containing BSA and 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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	K562 human myelogenous leukemia cell line

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. <ul style="list-style-type: none"> 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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