

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TfR2 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 353810
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human TfR2 Arg105-Phe801 Accession # Q9UP52
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	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.

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

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## 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 $\alpha$  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 $\beta$  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.

## PRODUCT SPECIFIC NOTICES

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