

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TfR2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 353817
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TfR2 Arg105-Phe801 Accession # Q9UP52
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

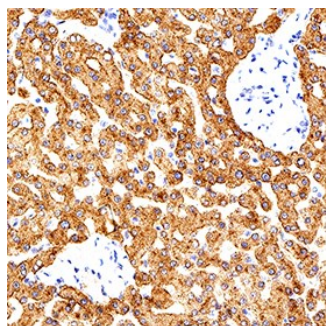
APPLICATIONS

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
Immunohistochemistry	5-25 µg/mL	See Below

DATA

Immunohistochemistry



TfR2 in Human Liver. TfR2 was detected in immersion fixed paraffin-embedded sections of human liver using Mouse Anti-Human TfR2 Monoclonal Antibody (Catalog # MAB31201) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in hepatocytes. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 TfR2α 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 TfR2β 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.