Human Transferrin Antibody

Monoclonal Mouse IgG_1 Clone # 507506

Catalog Number: MAB5746

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Transferrin in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 507506
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human Transferrin Val20-Pro698 Accession # AAH59367
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 as a 0.2 μm filtered solution in PBS.

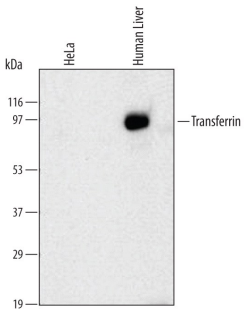
APPLICATIONS

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
Western Blot	2 µg/mL	See Below

DATA

Western Blot



Detection of Human Transferrin by Western Blot. Western blot shows lysates of human liver tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Transferrin Monoclonal Antibody (Catalog # MAB5746) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Transferrin at approximately 90 kDa (as indicated). This experiment was conducted under non-reducing conditions and using Immunoblot Buffer Group 1. It is recommended to use this antibody under non-reducing conditions only.

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.** ● 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, also known as serotransferrin and siderophilin, is an 80 kDa secreted glycoprotein that binds two Fe (3+) ions, transporting them from sites of absorption and heme degradation to those of storage and utilization. It is a member of the Transferrin family of proteins. Human Transferrin is synthesized as a 698 amino acid (aa) precursor that contains a 19 aa signal sequence and a 679 aa mature chain. The mature chain consists of two Transferrin-like domains, two high-affinity iron binding sites, one potential site for O-linked glycosylation, and two potential sites for N-linked glycosylation. Human Transferrin is 73% aa identical to mouse and rat Transferrin.

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