**Description**

**Species Reactivity:** Human

**Specificity:** Detects human Transferrin in direct ELISAs and Western blots.

**Source:** Monoclonal Mouse IgG, Clone # 507506

**Purification:** Protein A or G purified from hybridoma culture supernatant

**Immunogen:** *S. frugiperda* insect ovarian cell line Sf21-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.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tr>
<td>Western Blot</td>
<td>2 μg/mL</td>
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**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.