

## DESCRIPTION

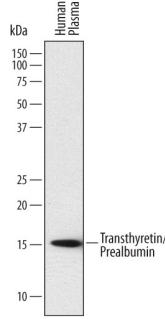
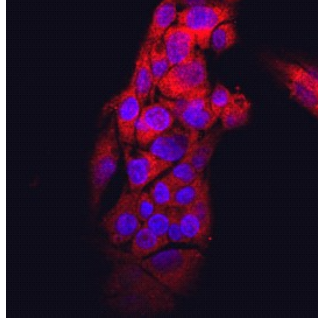
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Transthyretin/Prealbumin in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 760430
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human Transthyretin/Prealbumin
<b>Formulation</b>	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
<b>Western Blot</b>	2 µg/mL	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below

## DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human Transthyretin/Prealbumin by Western Blot.</b> Western blot shows human plasma. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Transthyretin/Prealbumin Monoclonal Antibody (Catalog # MAB7505) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Transthyretin/Prealbumin at approximately 15 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunocytochemistry</b></p>  <p><b>Transthyretin/Prealbumin in HepG2 Human Cell Line.</b> Transthyretin/Prealbumin was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Mouse Anti-Human Transthyretin/Prealbumin Monoclonal Antibody (Catalog # MAB7505) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Transthyretin (TTR), previously called thyroxin-binding prealbumin, is a 55 kDa homotetramer of 14-15 kDa monomers that is found in plasma. TTR is responsible for the transport of the thyroid hormone T4 and retinol binding protein (RBP). It slows renal clearance of T4 and RBP due to megalin-mediated re-uptake of TTR complexes in the renal tubules. TTR is also found in tissues including the brain. Numerous human polymorphisms have been associated with aggregates found in familial amyloidotic polyneuropathies (FAP). Mature human TTR shares 80% and 83% amino acid sequence identity with mouse and rat TTR, respectively.