

## DESCRIPTION

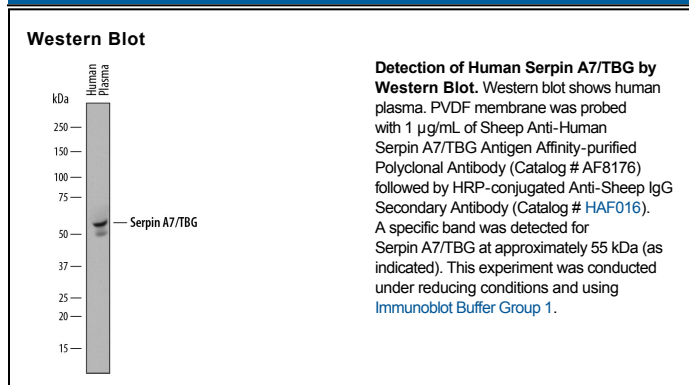
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Serpin A7/TBG in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human Serpin A9 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human Serpin A7/TBG Ala21-Ala415 Accession # P05543
<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 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>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<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>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <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

Serpin A7 (also TBG/Thyroxine-binding globulin and T4-binding globulin) is a secreted 54 kDa glycoprotein, non-inhibitory member of the serpin family of proteins. It is expressed by the liver and secreted in plasma. Mutations in the SERPINA7 gene can result in a whole spectrum of deficiencies, characterized by either reduced or increased TBG levels in the serum. A deficiency in TBG result in low serum total T4 and T3 count in clinically euthyroid subjects in the presence of normal serum TSH. Over aa21-415, human serpin A7 shares 76% aa sequence identity with mouse serpin A7.