

DESCRIPTION

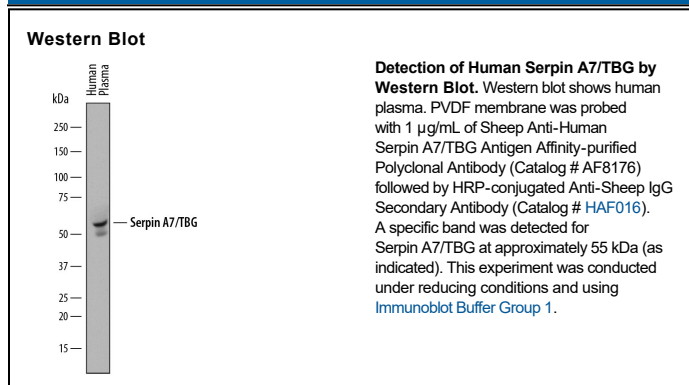
Species Reactivity	Human
Specificity	Detects human Serpin A7/TBG in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human Serpin A9 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell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

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

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.