

**DESCRIPTION**

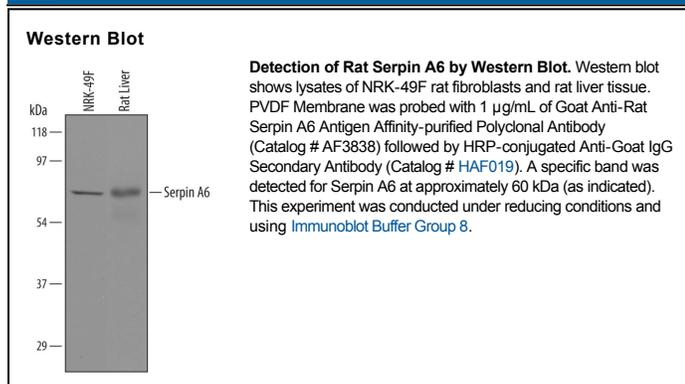
<b>Species Reactivity</b>	Rat
<b>Specificity</b>	Detects rat Serpin A6 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse (m) Serpin A1, rmSerpin A5, and recombinant human Serpin A4 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant rat Serpin A6 Ser23-Ala396 Accession # NP_001009663
<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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<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 A6 (also corticosteroid-binding globulin/CBG and Transcortin) is a 45-60 kDa, secreted glycoprotein member of the clade A serpin family of protease inhibitors. Although it is a serpin family member, it shows no protease inhibition. Serpin A6 is produced principally by hepatocytes, but is also expressed by hypothalamic neurons and anterior pituitary endocrine cells. Serpin A6 transports progesterone and > 90% of circulating cortisol, and likely has three functions: first it can be cleaved, releasing cortisol to the tissues; second, it regulates levels of free hormone available over time; and third, it likely binds to specific cell-surface receptors when complexed to cortisol. Mature rat Serpin A6 is 374 amino acids (aa) in length (aa 23-396). It contains an RCL segment that is involved in steroid binding (aa 334-351). Over aa 23-396, rat Serpin A6 shares 78% and 60% aa sequence identity with mouse and human Serpin A6, respectively.