

DESCRIPTION

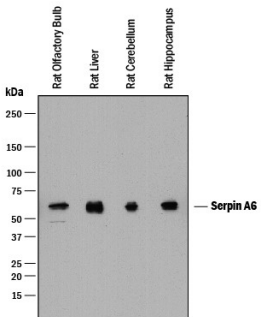
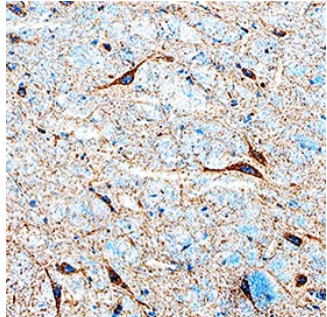
Species Reactivity	Rat
Specificity	Detects rat Serpin A6 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 930816
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat Serpin A6 Met1-Ala396 Accession # P31211
Formulation	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	0.2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p> 	<p>Detection of Rat Serpin A6 by Western Blot. Western blot shows lysates of rat olfactory bulb tissue, rat liver tissue, rat brain (cerebellum) tissue, and rat brain (hippocampus) tissue. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Rat Serpin A6 Monoclonal Antibody (Catalog # MAB3838) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Serpin A6 at approximately 50-60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p> 	<p>Serpin A6 in Rat Brain. Serpin A6 was detected in perfusion fixed frozen sections of rat brain (preoptic nucleus) using Mouse Anti-Rat Serpin A6 Monoclonal Antibody (Catalog # MAB3838) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to neurons. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</p>
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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. <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 A6, also known as 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.