Mouse Serpin A8/Angiotensinogen Antibody

Monoclonal Rat IgG_1 Clone # 754438

Catalog Number: MAB6966

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Serpin A8/Angiotensinogen in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) Serpin A8/Angiotensinogen, rhSerpin A4, recombinant mouse (rm) Serpin A1, A3N, A11, B8, C1, E1, E2, I1, or rmPEDF is observed.
Source	Monoclonal Rat IgG_1 Clone # 754438
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Serpin A8/Angiotensinogen Asp25-Val477 Accession # P11859
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.

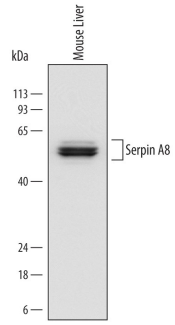
APPLICATIONS

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	0.5 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

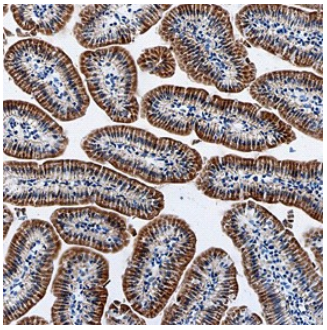
DATA

Western Blot



Detection of Mouse Serpin A8/Angiotensinogen by Western Blot. Western blot shows lysates of mouse liver tissue. PVDF membrane was probed with 0.5 µg/mL of Rat Anti-Mouse Serpin A8/Angiotensinogen Monoclonal Antibody (Catalog # MAB6966) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). Specific bands were detected for Serpin A8/Angiotensinogen at approximately 52-62 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Serpin A8/Angiotensinogen in Mouse Intestine. Serpin A8/Angiotensinogen was detected in perfusion fixed frozen sections of mouse intestine using Rat Anti-Mouse Serpin A8/Angiotensinogen Monoclonal Antibody (Catalog # MAB6966) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to intestinal epithelial cells. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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.** ● 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 A8 (serine proteinase inhibitor-clade A #8; also angiotensinogen/ANGT) is a secreted, 52-62 kDa glycoprotein member of the clade F-subfamily, serpin superfamily of protease inhibitors. It is expressed by neurons and hepatocytes, and undergoes extracellular cleavage by renin to create a ten amino acid (aa) peptide termed Ang/angiotensin I. This inactive peptide is further cleaved by ACE on the endothelial cell membrane to create bioactive Ang II. Ang II induces vascoconstriction and aldosterone release. Mature human Serpin A8 is 452 aa in length (aa 34-485). It contains Ang I (aa 34-43) that is cleaved to create Ang II (aa 34-41). Serpin A8 may circulate in a 200 kDa complex with major basic protein (MBP), or as part of a larger 300 kDa complex with MBP and complement C3dg. Over aa 34-485, human Serpin A8 shares 61% aa identity with mouse Serpin A8.

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