Human/Mouse Serpin F1/PEDF Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1177

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human Serpin F1/PEDF in direct ELISAs. Detects human and mouse Serpin F1/PEDF in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Serpin F1/PEDF Asp44-Pro418 Accession # P36955
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 as a 0.2 μm filtered solution in PBS.

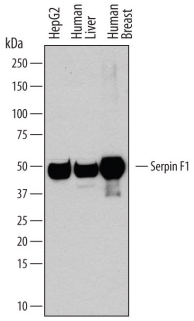
APPLICATIONS

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	0.2-2 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below
Simple Western	2 µg/mL	See Below

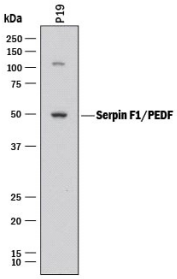
DATA

Western Blot



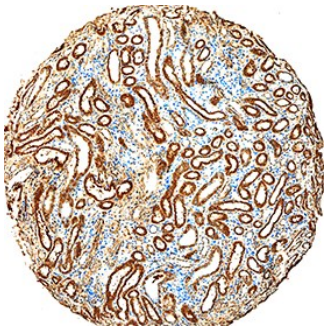
Detection of Human Serpin F1/PEDF by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, human liver tissue, and human breast tissue. PVDF membrane was probed with 0.2 µg/mL of Goat Anti-Human/Mouse Serpin F1/PEDF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1177) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for Serpin F1/PEDF at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Western Blot



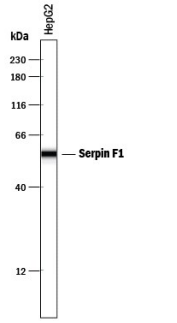
Detection of Mouse Serpin F1/PEDF by Western Blot. Western blot shows lysates of P19 mouse embryonal carcinoma cell line. PVDF membrane was probed with 2 µg/mL of Goat Anti-Human/Mouse Serpin F1/PEDF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1177) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for Serpin F1/PEDF at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Serpin F1/PEDF in Human Kidney. Serpin F1/PEDF was detected in immersion fixed paraffin-embedded sections of human kidney using Goat Anti-Human/Mouse Serpin F1/PEDF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1177) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to convoluted tubules. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Simple Western



Detection of Human Serpin F1/PEDF by Simple Western™. Simple Western lane view shows lysates of HepG2 human hepatocellular carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Serpin F1/PEDF at approximately 56 kDa (as indicated) using 2 µg/mL of Goat Anti-Human/Mouse Serpin F1/PEDF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1177) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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.** ● 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.

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BACKGROUND

Serpin F1 (serine proteinase inhibitor-clade F #1; also PEDF, PIG35 and EPC-1) is a secreted, 50 kDa glycoprotein member of the clade F-subfamily, serpin superfamily of protease inhibitors. It is expressed by diverse cell types such as retinal pigment and breast epithelium, fibroblasts, astrocytes and hepatocytes. Serpin F1 circulates in blood and binds to type I collagen plus heparan sulfate. Although it is a serpin, it belongs to a class of serpins that are nonprotease inhibiting, and instead is known to possess potent antiangiogenic and neurotrophic activity. Human Serpin F1 is 418 amino acids (aa) in length. It contains a 19 aa signal sequence plus a 399 aa mature region that shows an NLS (aa 146-149), a neuroprotective motif (aa 354-359) and an antiangiogenesis segment (aa 387-411). Phosphorylation occurs at multiple sites that affect bioactivity. Over aa 44-418, human Serpin F1 shares 87% aa identity with mouse Serpin F1.

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