

# **Human Serpin F1/PEDF Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1177

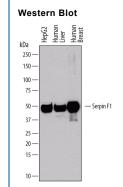
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Serpin F1/PEDF in direct ELISAs and Western blots. In Western blots, approximately 50% cross-reactivity with recombinant mouse Serpin F1 is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived 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.	

## **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	5-15 μg/mL	Immersion fixed paraffin-embedded sections of human skin

#### **DATA**



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 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.

## PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

## Stability & Storage

Shipping

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 F1 (<u>ser</u>ine <u>proteinase inhibitor-clade F #1</u>; 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.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

