Human/Mouse Serpin F1/PEDF Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1177T
100 µg

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
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

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