

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat Serpin A12 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human Serpin A12 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat Serpin A12 Leu20-Pro411 Accession # Q8R4Z1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunoprecipitation	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 A12 (serine proteinase inhibitor-clade A #12; also vaspin) is a 45-50 kDa, secreted member of the α1-antitrypsin (clade A)-subfamily, Serpin superfamily of protease inhibitors. It is produced by visceral and subcutaneous adipocytes, plus adipocyte-derived stem cells during obesity or diabetes. The presence of vaspin reverses insulin-resistance. Its molecular target is unknown, but it may antagonize the action of proteases that impair the action of insulin. Rat Serpin A12 is 411 amino acids (aa) in length. It contains a 20 aa signal sequence and a 391 aa mature region. A potential "active" inhibitor site lies between Gly364 and Pro389. Mature rat Serpin A12 shares 62% and 88% aa identity with human and mouse Serpin A12, respectively.

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