

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Serpin A1a in ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant mouse (rm) Serpin A1c, approximately 15% cross-reactivity with recombinant human A1, and less than 5% cross-reactivity with rmSerpin A3n is observed.
Source	Monoclonal Rat IgG ₁ Clone # 882213
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Serpin A1a Met1-Lys413 Accession # P07758
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.

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 A1a, also known as alpha-1-antitrypsin, belongs to the serpin superfamily of proteinase inhibitors. It is one of five alpha 1-proteinase inhibitors produced in mice. Serpin A1a is produced in the liver, then secreted into the bloodstream. It inhibits a number of serine proteases, including elastase, trypsin, plasmin, and thrombin (1, 2). Serpin A1a's major function is to protect the lungs from neutrophil elastase. Serpin A1a deficiency can cause complications such as emphysema, and chronic obstructive pulmonary disease (COPD).

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