

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Serpin A12 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) Serpin A1, A3, A4, A5, A6, B8, 9, C1, D1, E1, F2, G1, I1, I2, recombinant mouse (rm) Serpin E2, F1, recombinant r                            |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2A</sub> Clone # 484223                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human Serpin A12<br>Leu20-Lys414<br>Accession # Q8IW75                                                                                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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 known as 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 adipocytes, and adipocyte-derived stem cells during obesity or diabetes. The presence of vaspin reverses insulin-resistance. Its molecular target is unknown. Human Serpin A12 is 414 amino acids (aa) in length. It contains a 20 aa signal sequence and a 394 aa mature region. A potential "active" inhibitor site lies between Arg363 and Met378. Mature human Serpin A12 shares 61% aa identity with mouse Serpin A12.

## PRODUCT SPECIFIC NOTICES

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