

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse Aminopeptidase PILS/ARTS1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant human Aminopeptidase PILS/ARTS is observed.                                                             |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2B</sub> Clone # 325908                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse Aminopeptidase PILS/ARTS1<br>Ser27-Leu930<br>Accession # NP_109636                                                                                                                                                    |
| <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.

**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

The mouse ARTS1 gene encodes aminopeptidase PILS (Puromycin-Insensitive Leucyl-Specific), which is also known as adipocyte-derived leucine aminopeptidase, type 1 tumor necrosis factor receptor shedding aminopeptidase regulator and ERAAP (the aminopeptidase associated with antigen processing in the endoplasmic reticulum) (1-3). The deduced amino acid sequence of mouse ARTS1 consists of a signal peptide and a large ectodomain. Widely expressed and releasing an N-terminal amino acid (Leu), the enzyme may play a role in many processes such as antigen processing and angiogenesis.

## PRODUCT SPECIFIC NOTICES

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