Mouse Aminopeptidase PILS/ARTS1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2500

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Aminopeptidase PILS/ARTS1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 45% cross-reactivity with recombinant human ARTS1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Aminopeptidase PILS/ARTS1 Ser27-Leu930 Accession # Q6GTP5
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse Aminopeptidase PILS/ARTS1 (Catalog # 2500-ZN)
Neutralization	Measured by its ability to neutralize Recombinant Mouse Aminopeptidase PILS/ARTS1 (2 µg/mL, Catalog # 2500-ZN) cleavage of the fluorogenic peptide substrate L-Amc (100 µM). The Neutralization Dose (ND_{50}) is typically 12 µg/mL.	

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

References:

1. Miyashita, H. *et al.* (2002) Blood **99**:3241.
2. Serwold, T. *et al.* (2002) Nature **419**:480.
3. Schomburg, L. (2004) in *Handbook of Proteolytic Enzymes.* Barrett, *et al.* eds. p. 311, Academic Press, San Diego.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449