

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human Aminopeptidase PILS/ARTS1 in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant mouse Aminopeptidase PILS/ARTS1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 6H9
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 9-derived recombinant human ARTS1 Accession # Q9NZ08
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 as a 0.2 µm filtered solution in PBS.

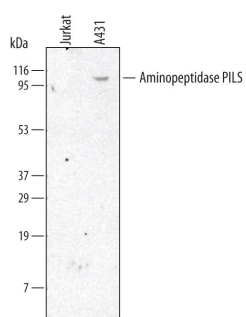
APPLICATIONS

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	2 µg/mL	See Below
Simple Western	20 µg/mL	See Below

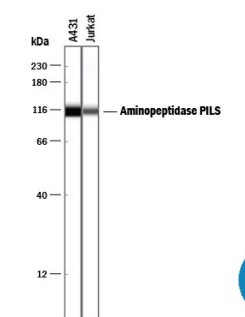
DATA

Western Blot




Detection of Human Aminopeptidase PILS/ARTS1 by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human/Mouse Aminopeptidase PILS/ARTS1 Monoclonal Antibody (Catalog # MAB2334) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Aminopeptidase PILS/ARTS1 at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Simple Western



Detection of Human Aminopeptidase PILS/ARTS1 by Simple Western™. Simple Western lane view shows lysates of A431 human epithelial carcinoma cell line and Jurkat human acute T cell leukemia cell line, loaded at 0.2 mg/mL. A specific band was detected for Aminopeptidase PILS/ARTS1 at approximately 114 kDa (as indicated) using 20 µg/mL of Mouse Anti-Human/Mouse Aminopeptidase PILS/ARTS1 Monoclonal Antibody (Catalog # MAB2334). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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. <ul style="list-style-type: none"> • 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

Aminopeptidase PILS/ARTS1 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). ARTS1 is widely expressed and releases an N-terminal amino acid (Leu). The amino acid sequence of mouse ARTS1 is 94%, 84%, 80 and 70% identical to that of rat, human, canine, and chicken.