

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Aminopeptidase PILS/ARTS1 in direct ELISAs and Western blots. In direct ELISAs, approximately 45% cross-reactivity with recombinant mouse ARTS1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Aminopeptidase PILS/ARTS1 Ala37-Met941 Accession # EAW96077
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	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 name of Aminopeptidase PILS (Puromycin-Insensitive Leucyl-Specific) describes the two basic properties of this zinc metalloprotease *in vitro* (1). Also known as ALAP (Adipocyte-derived Leucin AminoPeptidase), type 1 tumor necrosis factor receptor (TNFR) shedding aminopeptidase regulator and ER aminopeptidase ERAP1 or ERAAP, it is encoded by the ARTS1 gene (2-4). Aminopeptidase PILS has been identified to regulate antigen presentation, promote TNFR1 ectodomain shedding and associate with hypertension (2-5).

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