

Product datasheet for AP06756PU-S

ARTS1 (ERAP1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IF, IHC, WB

Recommended Dilution: Western blot: 1/500-1/1000.

Immunohistochemistry on paraffin sections: 1/50-1/200.

Immunofluorescence: 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Immunogen: Synthetic peptide, corresponding to amino acids 435-489 of Human ERAP1.

This antibody detects endogenous levels of ERAP1 protein. Specificity:

(region surrounding Lys467)

Formulation: Phosphate buffered saline (PBS), pH~7.2

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).

Preservative: 15 mM Sodium Azide

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen.

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~ 110 kDa

Gene Name: endoplasmic reticulum aminopeptidase 1

Database Link: Entrez Gene 51752 Human

Q9NZ08



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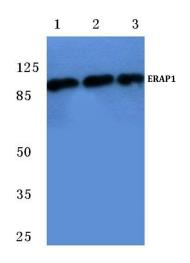
Background:

The endoplasmic reticulum (ER) aminopeptidase 1 (ERAP1) is a 120 kDa protein localized to the lumen of the ER, which removes NH2-terminal residues from many antigenic precursors for MHC class I peptide presentation. Peptides that are presented by MHC class I on the surface of a cell must be 8-11 residues long, and ERAP1 specifically trims peptides of 9 amino acids or more. ERAP1 is also induced by interferon-y. The gene encoding human ERAP1 maps to chromosome 5q15. ERAP1 has previously been characterized as adipocyte-derived leucine aminopeptidase (A-LAP), puromycin-insensitive leucine-specific aminopeptidase (PILS-AP) and aminopeptidase regulator of TNFR1 shedding (ARTS-1). A-LAP is thought to inactivate several bioactive peptides, including angiotensin II and, subsequently, may be involved in the regulation of blood pressure. PILS-AP is described as playing a role in angiogenesis by regulating the proliferation and migration of endothelial cells, and ARTS-1 is characterized as a TNFR1 binding protein that promotes TNFR1 shedding. Further research will be necessary to fully elucidate the functions of this protein.

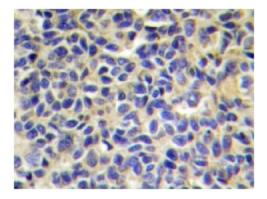
Synonyms:

APPILS, KIAA0525, Aminopeptidase PILS, ARTS-1

Product images:



Western blot (WB) analysis of ERAP1 antibody at 1/500 dilution Lane 1:THP-1 whole cell lysate Lane 2:NIH-3T3 whole cell lysate Lane 3:Rat kidney tissue lysate



Immunohistochemistry (IHC) analysis of ERAP1 antibody in paraffin-embedded human breast carcinoma tissue.