

AARE Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58353

Specification

AARE Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P13798
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human AARE
Epitope Specificity	101-200/732
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
SIMILARITY	Belongs to the retinoblastoma protein (RB) family.
SUBUNIT	Interacts with SUV420H1, SUV420H2 and USP4
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

AARE (Acylamino-acid-releasing enzyme) is also known as Acyl-peptide hydrolase. It catalyzes the hydrolysis of the terminal acetylated amino acid preferentially from small acetylated peptides. The acetyl amino acid formed by this hydrolase is further processed to acetate and a free amino acid by an aminoacylase. It can play an important role in destroying oxidatively damaged proteins in living cells. Deletions of this gene locus corresponding to the protein are found in various types of carcinomas, including small cell lung carcinoma and renal cell carcinoma.

AARE Polyclonal Antibody - Additional Information

Gene ID 327

Other Names

Acylamino-acid-releasing enzyme, AARE, 3.4.19.1, Acyl-peptide hydrolase, APH, Acylaminoacyl-peptidase, Oxidized protein hydrolase, OPH, APEH, D3F15S2, D3S48E, DNF15S2

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \><span class

=["dilution_IHC-F">IHC-F~N/A](#)<br \><span class
=["dilution_IF">IF~1:50~200](#)<br \>E~N/A](#)

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

AARE Polyclonal Antibody - Protein Information

Name APEH

Synonyms D3F15S2, D3S48E, DNF15S2

Function

This enzyme catalyzes the hydrolysis of the N-terminal peptide bond of an N-acetylated peptide to generate an N-acetylated amino acid and a peptide with a free N-terminus (PubMed:10719179, PubMed:1740429, PubMed:2006156). It preferentially cleaves off Ac-Ala, Ac-Met and Ac-Ser (By similarity). Also, involved in the degradation of oxidized and glycated proteins (PubMed:10719179).

Cellular Location

Cytoplasm.

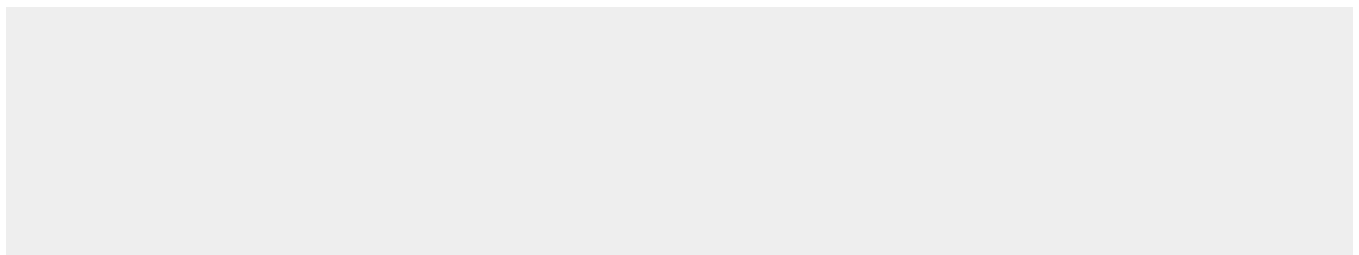
Tissue Location

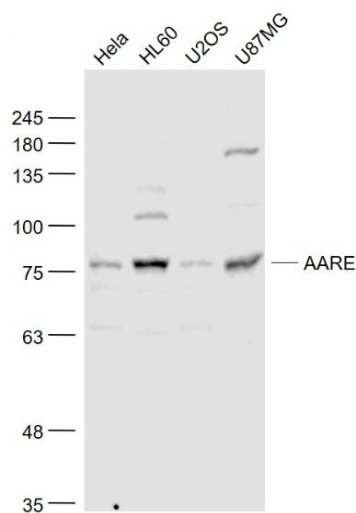
Expressed in erythrocytes (at protein level).

AARE Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AARE Polyclonal Antibody - Images



Sample:

HeLa(Human) Cell Lysate at 30 ug

HL60(Human) Cell Lysate at 30 ug

U2OS(Human) Cell Lysate at 30 ug

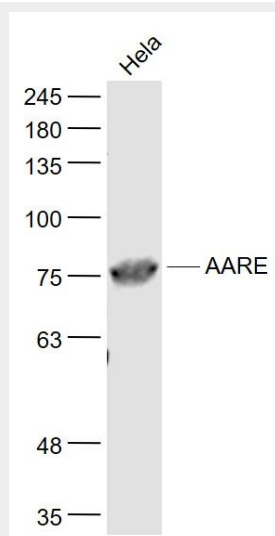
U87MG(Human) Cell Lysate at 30 ug

Primary: Anti- AARE (bs-5983R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 81 kD

Observed band size: 78 kD



Sample:

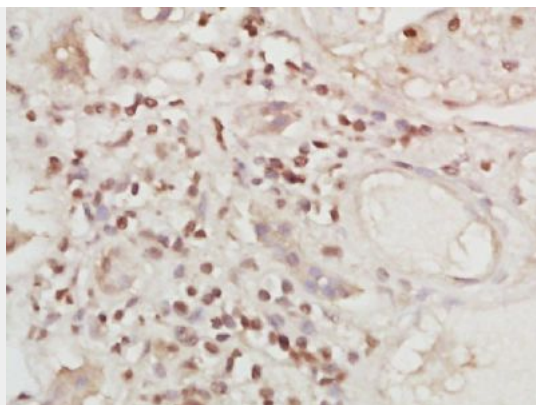
HeLa(Human) Cell Lysate at 30 ug

Primary: Anti- AARE (bs-5983R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 81 kD

Observed band size: 78 kD



Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (AARE) Polyclonal Antibody, Unconjugated (bs-5983R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.