

AARS Rabbit pAb

Catalog No.: A15017

Basic Information

Observed MW

107kDa

Calculated MW

106kDa/109kDa

Category

Primary antibody

Applications

WB,IHC,IF/ICC

Cross-Reactivity

Human, Mouse, Rat

Background

The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthetases, of the class II enzymes. Class II tRNA synthetases evolved early in evolution and are highly conserved. This is reflected by the fact that 498 of the 968-residue polypeptide human AARS shares 41% identity with the E.coli protein. tRNA synthetases are the enzymes that interpret the RNA code and attach specific amino acids to the tRNAs that contain the cognate trinucleotide anticodons. They consist of a catalytic domain which interacts with the amino acid acceptor-T psi C helix of the tRNA, and a second domain which interacts with the rest of the tRNA structure.

Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

16

Swiss Prot

P49588

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human AARS (NP_001596.2).

Synonyms

AARS;CMT2N;EIEE29

Contact

 | www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

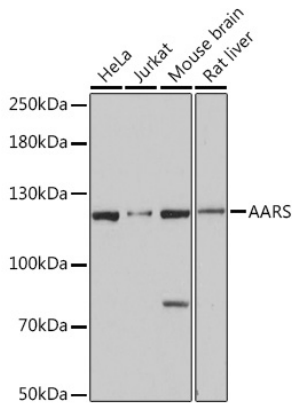
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thiomersal, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of extracts of various cell lines, using AARS Rabbit pAb (A15017) at 1:3000 dilution.

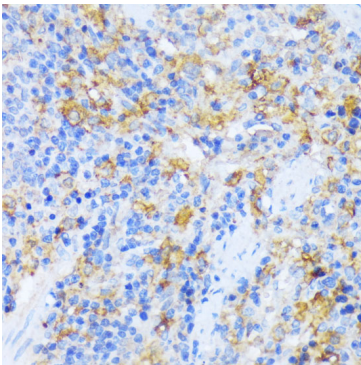
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

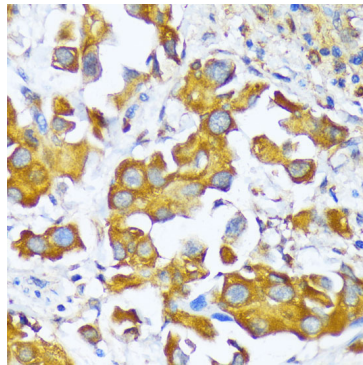
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

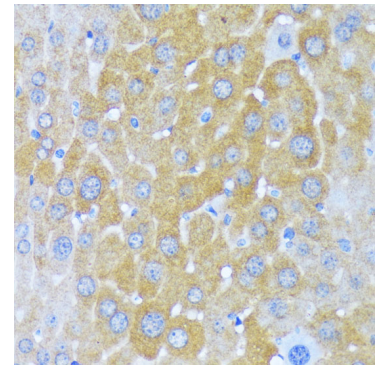
Exposure time: 10s.



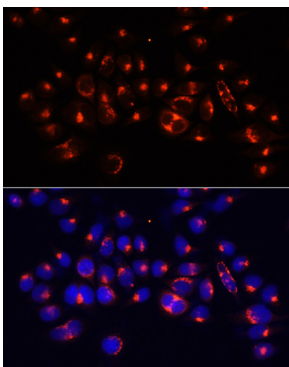
Immunohistochemistry of paraffin-embedded rat spleen using AARS antibody (A15017) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded human lung cancer using AARS antibody (A15017) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded mouse liver using AARS antibody (A15017) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunofluorescence analysis of 293T cells using AARS antibody (A15017) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.