

AARS1 Rabbit mAb

Catalog NO.: A28666 **Recombinant**

Basic Information

Observed MW

107 kDa

Calculated MW

107 kDa/109 kDa

Category

Monoclonal Antibodies

Applications

WB, IF/ICC, IF-F, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

Conjugation

Unconjugated

Clone number

ARC81030

Recommended Dilutions

WB 1:2000 - 1:15000

IF/ICC 1:200 - 1:400

IF-F 1:200 - 1:400

IHC-P 1:300 - 1:1200

ELISA

Recommended starting concentration is 1 µg/mL.
Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥ 1:10000)

Contact

Background

The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthases, of the class II enzymes. Class II tRNA synthases 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 synthases 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.

Immunogen Information

Gene ID	Swiss Prot
16	P49588

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

AARS; TTD8; CMT2N; DEE29; HDLS2; EIEE29

Product Information

☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

Source

Rabbit

Isotype

IgG

Purification

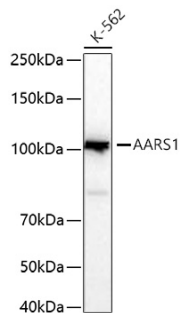
Affinity purification

Storage

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

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH 7.3.

Validation Data



Western blot analysis of lysates from K-562 cells using AARS1 Rabbit mAb (A28666) at 1:5000 dilution incubated overnight at 4°C.

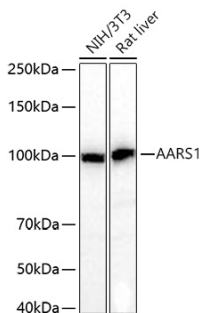
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20 s.



Western blot analysis of various lysates using AARS1 Rabbit mAb (A28666) at 1:5000 dilution incubated overnight at 4°C.

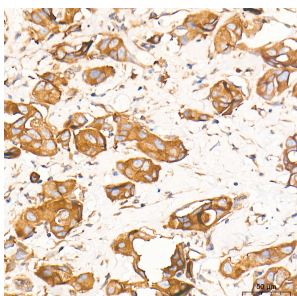
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

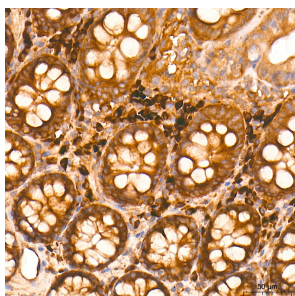
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

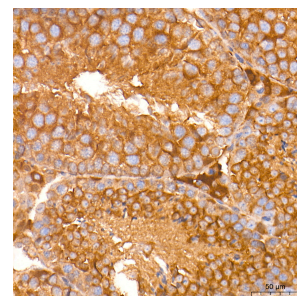
Exposure time: 45 s.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using AARS1 Rabbit mAb (A28666) at a dilution of 1:500 (40x lens).



Immunohistochemistry analysis of paraffin-embedded Human colon tissue using AARS1 Rabbit mAb (A28666) at a dilution of 1:500 (40x lens). High



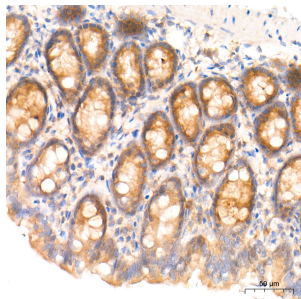
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using AARS1 Rabbit mAb (A28666) at a dilution of 1:500 (40x lens). High

High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

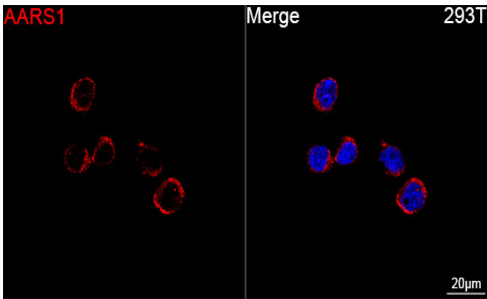
pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

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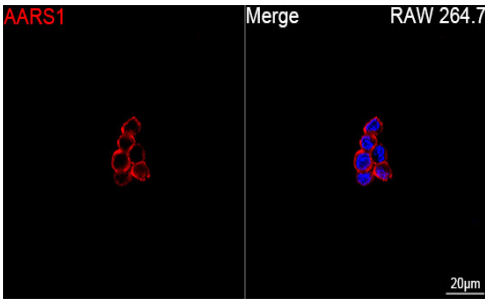
Validation Data



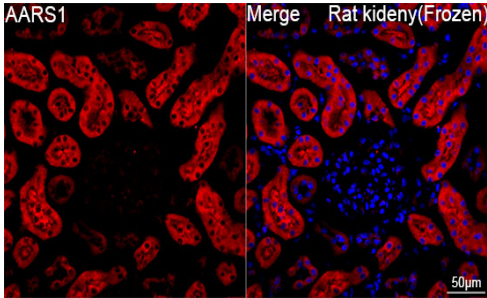
Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using AARS1 Rabbit mAb (A28666) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of 293T cells using AARS1 Rabbit mAb (A28666, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of RAW 264.7 cells using AARS1 Rabbit mAb (A28666, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of frozen sections of Rat kidney tissue using AARS1 Rabbit mAb (A28666, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

