

Datasheet for ABIN2778779
anti-AARS antibody (N-Term)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	AARS
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Guinea Pig, Horse, Rabbit, Cow, Zebrafish (Danio rerio), Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AARS antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human AARS
Sequence:	DSTLTASEIR QRFIDFFKRN EHTYVHSSAT IPLDDPTLLF ANAGMNQFKP
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 86%, Rabbit: 100%, Rat: 100%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against AARS. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	AARS
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Target Details

Alternative Name: AARS ([AARS Products](#))

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. 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.

Alias Symbols: CMT2N

Protein Interaction Partner: ISG15, UBC, SUMO2, SUMO1, NEDD8, TPD52, STAT5B, SRP9, PPP2R5E, METTL1, HSF1, CALU, DPP9, NIF3L1, ANKMY2, DPP8, IPO11, EEF2K, CACYBP, ARPC1B, SAE1, TOM1L1, EIF4A3, WARS, TPD52L2, UBD, VCAM1, ITGA4, HSP90AB1, HSP90AA1, FN1, NSUN2, LARS, FARSB, UBA1, QARS, N

Protein Size: 968

Molecular Weight: 107 kDa

Gene ID: 16

NCBI Accession: [NM_001605](#), [NP_001596](#)

UniProt: [P49588](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

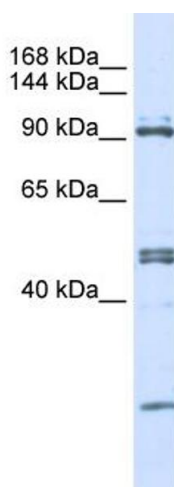
Comment: Antigen size: 968 AA

Restrictions: For Research Use only

Handling

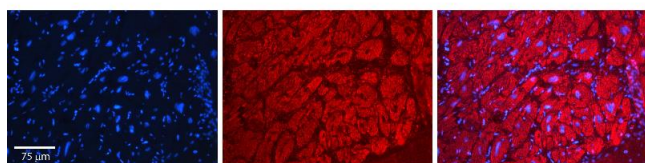
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-AARS Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: 293T cell lysate AARS is supported by BioGPS gene expression data to be expressed in HEK293T



Immunohistochemistry

Image 2. Rabbit Anti-AARS Antibody Formalin Fixed Paraffin Embedded Tissue: Human heart Tissue Observed Staining: Cytoplasmic Primary Antibody Concentration: N/A Other Working Concentrations: 1:600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec