

Rabbit anti-Human alanyl-tRNA synthetase Polyclonal Antibody | anti-AARS antibody

Anti-alanyl-tRNA synthetase Antibody, Rabbit Polyclonal

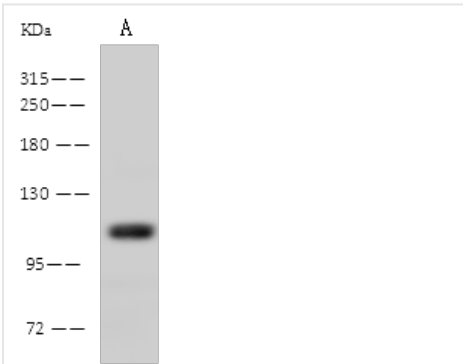
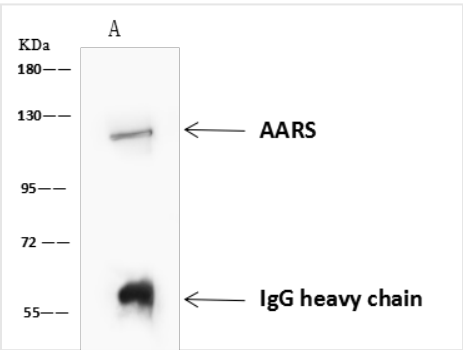
CATALOG # AAA256364	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

alanyl-tRNA synthetase; Polyclonal Antibody; Anti-alanyl-tRNA synthetase Antibody; Rabbit Polyclonal; alanyl-tRNA synthetase/AARS Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-CMT2N Antibody; anti-AARS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human alanyl-tRNA synthetase/AARS
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-AARS antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	E Coli-derived Human alanyl-tRNA synthetase/AARS fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human alanyl-tRNA synthetase/AARS fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.



IP (Immunoprecipitation)

AARS was immunoprecipitated using: Lane A: 0.5 mg U-251 MG Whole Cell Lysate 4 uL anti-AARS rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-AARS rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 107 kDa. Observed band size: 107 kDa.

WB (Western Blot)

Anti-AARS rabbit polyclonal antibody at 1:500 dilution. Lane A: K562 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 107 kDa. Observed band size: 107 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-AARS antibody	Alanyl-tRNA synthetase (AARS) belongs to the family of ligases, specifically those forming carbon-oxygen bonds in aminoacyl-tRNA and related compounds. This enzyme participates in alanine and aspartate metabolism and aminoacyl-tRNA biosynthesis. Alanyl-tRNA synthetase (AlaRS) catalyzes synthesis of Ala-tRNA (Ala) and hydrolysis of mis-acylated Ser- and Gly-tRNA (Ala) at 2 different catalytic sites. Their role is not confined to catalyze the attachment of amino acids to transfer RNAs and thereby establish the rules of genetic code by virtue of matching the nucleotide triplet of anticodon with cognate amino acid. Under apoptotic conditions in cell culture, the full-length enzyme is secreted, and the two cytokine activities can be generated by leukocyte elastase, an extracellular protease. Secretion of this tRNA synthetase may contribute to apoptosis both by arresting translation and producing needed cytokines. This protein could be an attractive target of drugs against bacterial, fungal and parasitic infections.
References	Wakasugi K, et al. (1999) Two Distinct Cytokines Released from a Human Aminoacyl-tRNA Synthetase. Science. 284 (5411): 147-51. Sokabe M, et al. (2009) The structure of alanyl-tRNA synthetase with editing domain. Proc Natl Acad Sci. 106 (27): 11028-33. Skupinska M, et al. (2009) AARS--the etiological factor and the attractive target of many disorders. Postepy Biochem. 55 (4): 373-84.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.