

Rabbit anti-Human AARSD1 Monoclonal Antibody | anti-AARSD1 antibody

Recombinant Anti-AARSD1 Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255745	Rabbit	Human	Immunofluorescence, Immunocytochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

AARSD1; Monoclonal Antibody; Recombinant Anti-AARSD1 Antibody; Rabbit Monoclonal; AARSD1 Antibody; Rabbit MAb; alanyl-tRNA synthetase domain containing 1; Anti-AARSD1 Antibody; anti-AARSD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	012
Specificity	Human AARSD1
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-AARSD1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human AARSD1 Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human AARSD1.
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. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-AARSD1 rabbit monoclonal antibody at 1:500 dilution. Lane A: HeLa Whole Cell Lysate. Lane B: A549 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 45 kDa. Observed band size: 50 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of Human AARSD1 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human AARSD1 monoclonal antibody (1:60) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.

ADDITIONAL INFORMATION

Related Product Information for anti-AARSD1 antibody	AARSD1 belongs to the class-II aminoacyl-tRNA synthetase family, Alax-L subfamily. AARSD1 binds 1 zinc ion per subunit functions in trans to edit the amino acid moiety from incorrectly charged tRNA(Ala). Four transcript variants have been described for AARSD1: NM_25267.3, NM_113642.2, NM_1142653.1 and NM_1142654.1. It has been determined that the latter two variants represent a distinct upstream locus, which is now represented by GeneID:1885848 (PTGES3L), while the former two variants represent readthrough transcripts between PTGES3L and this locus (AARSD1). The readthrough locus (PTGES3L-AARSD1) is now represented by GeneID:188585.
References	Tatham MH, et al. (2011) Comparative proteomic analysis identifies a role for SUMO in protein quality control. Oncogene. 19(17):2120-8. Kim W, et al. (2011) Systematic and quantitative assessment of the ubiquitin-modified proteome. Mol Cell. 44(2):325-40. Udeshi ND, et al. (2012) Methods for quantification of in vivo changes in protein ubiquitination following proteasome and deubiquitinase inhibition. Mol Cell Proteomics. 11(5):148-59.

NCBI AND UNIPROT INFORMATION

NCBI GI #	217416402
NCBI GeneID	100885850
NCBI Accession #	NP_001129514.2
NCBI GenBank Nucleotide #	NM_001136042.2
UniProt Accession #	Q9BTE6; B4DI73
Molecular Weight	45,480 Da
NCBI Official Full Name	PTGES3L-AARSD1 protein isoform 1
NCBI Official Synonym Full Names	PTGES3L-AARSD1 readthrough
NCBI Official Symbol	PTGES3L-AARSD1
NCBI Protein Information	PTGES3L-AARSD1 protein
UniProt Protein Name	Alanyl-tRNA editing protein Aarsd1
UniProt Gene Name	AARSD1
UniProt Entry Name	AASD1_HUMAN

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.