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Arginyl tRNA synthetase Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54873

Specification

Arginyl tRNA synthetase Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	P54136
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**75 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human Arginyl tRNA synthetase**
Epitope Specificity	**401-500/660**
Isotype	**IgG**

Purity
affinity purified by Protein A

Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Cytoplasm.**
SIMILARITY	**Belongs to the class-I aminoacyl-tRNA synthetase family.**
SUBUNIT	**Interacts (via N-terminus) with AIMP1 (via N-terminus); this stimulates its catalytic activity. Interacts (via N-terminus) with LARS2 (via C-terminus). Monomer; also part of a multisubunit complex that groups tRNA ligases for Arg, Asp, Glu, Gln, Ile, Leu, Lys, Met and Pro.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Arginyl-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family. [provided by RefSeq, Jul 2008]

Arginyl tRNA synthetase Polyclonal Antibody - Additional Information

Gene ID 5917

Other Names
Arginine--tRNA ligase, cytoplasmic, 6.1.1.19, Arginyl-tRNA synthetase, ArgRS, RARS1 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=9870"

target="_blank">HGNC:9870), RARS

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

Arginyl tRNA synthetase Polyclonal Antibody - Protein Information

Name RARS1 (HGNC:9870)

Synonyms RARS

Function
Forms part of a macromolecular complex that catalyzes the attachment of specific amino acids to cognate tRNAs during protein synthesis (PubMed:25288775). Modulates the secretion of AIMP1 and may be involved in generation of the inflammatory cytokine EMAP2 from AIMP1 (PubMed:17443684).

Cellular Location
Cytoplasm. Cytoplasm, cytosol

Arginyl tRNA synthetase Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Arginyl tRNA synthetase Polyclonal Antibody - Images

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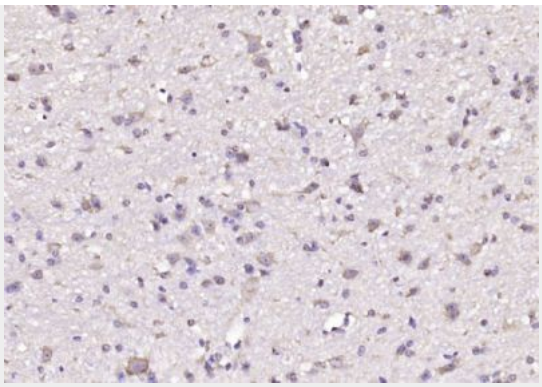

Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Arginyl tRNA synthetase) Polyclonal Antibody, Unconjugated (bs-12516R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.