

AARS2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7559c**Specification**

AARS2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O5JTZ9](#)
Other Accession [A2RRN5](#)**AARS2 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 57505

Other NamesAlanine--tRNA ligase, mitochondrial {ECO:0000255|HAMAP-Rule:MF_03133}, 6117
{ECO:0000255|HAMAP-Rule:MF_03133}, Alanyl-tRNA synthetase
{ECO:0000255|HAMAP-Rule:MF_03133}, AlaRS {ECO:0000255|HAMAP-Rule:MF_03133}, AARS2
{ECO:0000255|HAMAP-Rule:MF_03133}**Target/Specificity**The synthetic peptide sequence used to generate the antibody [AP7559c](/products/AP7559c) was selected from the Center region of human AARS2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AARS2 Antibody (Center) Blocking Peptide - Protein Information**Name** AARS2 {ECO:0000255|HAMAP-Rule:MF_03133}**Synonyms** AARSL, KIAA1270**Function**

Catalyzes the attachment of alanine to tRNA(Ala) in a two- step reaction: alanine is first activated by ATP to form Ala-AMP and then transferred to the acceptor end of tRNA(Ala). Also edits incorrectly charged tRNA(Ala) via its editing domain.

Cellular Location

Mitochondrion {ECO:0000255|HAMAP-Rule:MF_03133, ECO:0000269|PubMed:21549344}

AARS2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

AARS2 Antibody (Center) Blocking Peptide - Images

AARS2 Antibody (Center) Blocking Peptide - Background

Alanyl-tRNA synthetase 2 (AARS2) is an enzyme that catalyzes the chemical reaction: ATP + L-alanine + tRNA^{Ala} AMP + diphosphate + L-alanyl-tRNA^{Ala}. This enzyme participates in alanine and aspartate metabolism and aminoacyl-tRNA biosynthesis.

AARS2 Antibody (Center) Blocking Peptide - References

Bonnefond, L., *Biochemistry* 44 (12), 4805-4816 (2005) Nakayama, M., *Genome Res.* 12 (11), 1773-1784 (2002)