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# AARS2 (aa478-489) Antibody (internal region)

**Peptide-affinity purified goat antibody**
**Catalog # AF3736a**

## Specification

### AARS2 (aa478-489) Antibody (internal region) - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | Q5JTZ9 |
| Other Accession | NP_065796.1, 57505 |
| Reactivity | **Human** |
| Host | **Goat** |
| Clonality | **Polyclonal** |
| Concentration | **0.5 mg/ml** |
| Isotype | **IgG** |
| Calculated MW | **107340** |

### AARS2 (aa478-489) Antibody (internal region) - Additional Information

**Gene ID** 57505

**Other Names**
Alanine--tRNA ligase, mitochondrial {ECO:0000255|HAMAP-Rule:MF_03133}, 6.1.1.7 {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}

**Format**
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
AARS2 (aa478-489) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

### AARS2 (aa478-489) Antibody (internal region) - 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 (aa478-489) Antibody (internal region) - 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

## AARS2 (aa478-489) Antibody (internal region) - Images


Cell line 143B overexpressing Human AARS2 and probed with AF3736a (mock transfection in second lane). Data obtained from Henna.Tyynismaa, University of Helsinki, Finland.

## AARS2 (aa478-489) Antibody (internal region) - References

Toward the full set of human mitochondrial aminoacyl-tRNA synthetases: characterization of AspRS and TyrRS. Bonnefond L, Fender A, Rudinger-Thirion J, Giegé R, Florentz C, Sissler M. Biochemistry. 2005 Mar 29;44(12):4805-16. PMID: 15779907