

**Product Name**

Monoclonal Human anti-alanyl-tRNA synthetase Immunoglobulin

**CAT No.**

MQR 2.2902

**LOT No.**

19052

**Quantity**

100 µg

Edition: September 20, 2019

**Intended use**

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

This product is tested for use in enzyme-linked immunosorbent assay (ELISA) and immunoprecipitation (IP).

**Reagent provided**

The antibody is supplied in PBS.

**Isotype**

Human IgG1κ

**Immunogen**

Alanyl-tRNA synthetase.

Domain: D2-968 of 968 (C2).

**Specificity**

Specificity has been tested in ELISA (figure 1) and IP-MS.

**Purity**

Protein A purified.

**Disclaimer**

The antibody is for R&D use only. NOT for use in diagnostic or therapeutic procedures.

**Precautions**

1. For professional users.
2. As with any product derived from biological sources, proper handling procedures should be used.
3. The product may be used in different techniques and in combination with different sample types and materials, therefore each individual laboratory should validate the applied test system.

**Preparation of the antibody**

Use antibody as supplied.

**Storage/Stability**

Store at -20°C. After first time use, store at 4°C. Avoid repeated freeze-thaw cycles.

**Application guidelines**

ELISA: 1:1000 – 1:5000

IP: 2 µg/ml

Other applications: since applications vary, optimum working dilution of the product should be determined in the appropriate assay.

Unless the stability in the actual test system has been established, it is recommended to dilute the product immediately before use.

**Relevance**

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.<sup>1</sup>

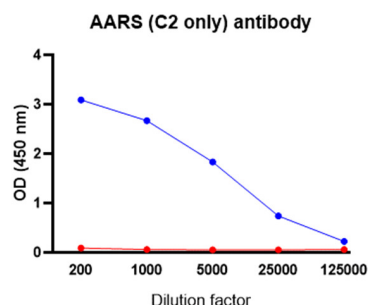


Figure 1: Specificity of anti-AARS (C2 only) (MQR2.2902), determined by ELISA. Antibody stock 0.9 mg/ml diluted in PBS containing 0.05% tween-20 and 1% BSA was tested on human alanyl-tRNA synthetase (in blue) and non-target protein (in red).

**References**

- 1) <https://www.uniprot.org/uniprot/P49588>