

| Product code | 70-600 |
|--|--|
| Size | 100 µl |
| Storage | Store 4°C for short term For long term storage store at -20°C. |
| | Aliquot to avoid repeated freezing and thawing. |
| Concentration | N/A |
| Buffer | 0.05% sodium azide |
| Purity | Rabbit antiserum |
| Immunogen | Purified recombinant hamster AlaRS protein (695-969) fused with GST |
| Isotype | Rabbit IgG |
| Reactivity | Human, hamster, and mouse AlaRS |
| Special notes | N/A |
| Application | 1. Western blotting (100~ 1.000 folds dilution) |
| 1.199110401011 | 2. Immunofluorescence staining (1/100) |
| Background | AlaRS (968 amino acids, 106.7 kDa). Alanine-tRNA ligase, is an important |
| | enzyme that catalyzes addition of alanine to tRNA in protein synthesis utilizing |
| | ATP hydrolysis AlaRS contains three domains: the N-terminal catalytic |
| | domain the aditing domain and the C-torminal C-Ala domain Alas adits |
| | uomani, the enting uomani and the C terminal C Ala uomani. Also euts |
| | incorrectly charged tRNA(Ala) via its editing domain. |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Data Link | UniProtKB/Swiss-Prot: <u>Q8CFX8</u> (SYAC_MESAU) |
| Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC | |
| PROCEDURES. NOT FOR MILITARY USE. | |
| | |

Anti-AlaRS (Alanine-tRNA Ligase) antibody, rabbit serum



Data Images: 70-600 Anti-AlaRS (Alanine-tRNA Ligase) antibody, rabbit serum



Fig.1 Detection of endogenous AlaRS protein in whole cell extracts by Western blotting with this antibody.

HeLa and NIH3T3 lyates (10 µg). The anti-AlaRS antiserum was used at 1/300 dilution.



Fig.2 Immunofluorescence staining of AlaRS protein in HeLa cells by using anti-AlaRS antibody. The cells were fixed with 4% paraformaldehyde and permeabilized with 0.25% TritonX100. The antibody was used at 1/100 dilution. As the second antibody, Alexa Fluor 488 conjugated goat anti-rabbit IgG antibody was used at 1/1,000 dilution. Nuclear DNA was stained with DAPI (left) and the merged image was shown in the center.

Reference: This antibody was used in the following publication.

 Wang Y et. al. "A hamster temperature-sensitive alanyl-tRNA synthase mutant causes degradation of cell cycle related proteins and apoptosis" J Biochemistry (Tokyo) 135, 7-16 (2004) PMID: <u>14999004</u> (WB)