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Datasheet for ABIN7158686

**anti-KARS antibody (AA 101-400) (HRP)**

## Overview

|                      |                                         |
|----------------------|-----------------------------------------|
| Quantity:            | 100 µg                                  |
| Target:              | KARS                                    |
| Binding Specificity: | AA 101-400                              |
| Reactivity:          | Human                                   |
| Host:                | Rabbit                                  |
| Clonality:           | Polyclonal                              |
| Conjugate:           | This KARS antibody is conjugated to HRP |
| Application:         | ELISA                                   |

## Product Details

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| Immunogen:        | Recombinant Human Lysine-tRNA ligase protein (101-400AA) |
| Isotype:          | IgG                                                      |
| Cross-Reactivity: | Human                                                    |
| Purification:     | >95%, Protein G purified                                 |

## Target Details

|                   |                                                                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | KARS                                                                                                                                                                                          |
| Alternative Name: | KARS ( <a href="#">KARS Products</a> )                                                                                                                                                        |
| Background:       | Background: Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to |

## Target Details

the acceptor end of the tRNA (PubMed:9278442, PubMed:18029264, PubMed:18272479).  
When secreted, acts as a signaling molecule that induces immune response through the activation of monocyte/macrophages (PubMed:15851690). Catalyzes the synthesis of the signaling molecule diadenosine tetraphosphate (Ap4A), and thereby mediates disruption of the complex between HINT1 and MITF and the concomitant activation of MITF transcriptional activity (PubMed:5338216, PubMed:14975237, PubMed:19524539, PubMed:23159739).  
(Microbial infection) Interacts with HIV-1 virus GAG protein, facilitating the selective packaging of tRNA<sup>3</sup>(Lys), the primer for reverse transcription initiation.  
Aliases: CMTRIB antibody, DFNB89 antibody, EC 6.1.1.6 antibody, KARS 1 antibody, KARS 2 antibody, KARS antibody, KARS1 antibody, KARS2 antibody, KIAA0070 antibody, KRS antibody, Lysine tRNA ligase antibody, Lysine-tRNA ligase antibody, LysRS antibody, Lysyl tRNA synthetase antibody, Lysyl-tRNA synthetase antibody, SYK\_HUMAN antibody

UniProt: [Q15046](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.