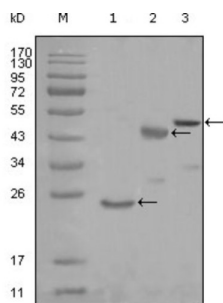
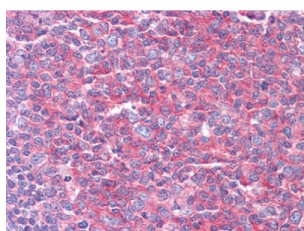


## Lysyl-tRNA Synthetase (KARS) Antibody

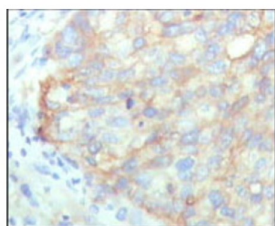
Catalogue No.: abx011059



Western blot analysis using KARS antibody against truncated Trx-KARS recombinant protein (1), truncated MBP-KARS (aa90-174) and full length KARS (aa1-188) transfected CHO-K1 cell lysate (3).



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma, showing cytoplasmic localization with DAB staining using KARS antibody.



Immunohistochemical analysis of paraffin-embedded human Tonsil tissues using KARS antibody.

**KARS:** lysyl-tRNA synthetase. Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Lysyl-tRNA synthetase is a homodimer localized to the cytoplasm which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis.

**Target:** Lysyl-tRNA Synthetase (KARS)

**Clonality:** Monoclonal

**Reactivity:** Human

**Tested Applications:** ELISA, IHC

**Host:** Mouse

**Recommended dilutions:** ELISA: 1/10000, IHC: 1/200 - 1/1000. Optimal dilutions/concentrations should be determined by the end user.

# Datasheet

Version: 1.0.0  
Revision date: 07 Jun 2025



|                            |                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conjugation:</b>        | Unconjugated                                                                                                                               |
| <b>Immunogen:</b>          | Purified recombinant fragment of KARS (aa90-174) expressed in E. coli.                                                                     |
| <b>Isotype:</b>            | IgG <sub>1</sub>                                                                                                                           |
| <b>Form:</b>               | Liquid                                                                                                                                     |
| <b>Purification:</b>       | Unpurified ascites.                                                                                                                        |
| <b>Storage:</b>            | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.                                                                             |
| <b>UniProt Primary AC:</b> | Q15046 ( <a href="#">UniProt</a> , <a href="#">ExPASy</a> )                                                                                |
| <b>Gene Symbol:</b>        | KARS1                                                                                                                                      |
| <b>GeneID:</b>             | <a href="#">3735</a>                                                                                                                       |
| <b>OMIM:</b>               | <a href="#">601421</a>                                                                                                                     |
| <b>HGNC:</b>               | 6215                                                                                                                                       |
| <b>KEGG:</b>               | hsa:3735                                                                                                                                   |
| <b>Ensembl:</b>            | ENSG00000065427                                                                                                                            |
| <b>String:</b>             | <a href="#">9606.ENSP00000325448</a>                                                                                                       |
| <b>Molecular Weight:</b>   | 74 kDa                                                                                                                                     |
| <b>Buffer:</b>             | Ascitic fluid containing 0.03% sodium azide.                                                                                               |
| <b>Concentration:</b>      | Not determined.                                                                                                                            |
| <b>Note:</b>               | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION. |