

For Research Use Only

KARS Polyclonal antibody

Catalog Number: 14951-1-AP

Featured Product

12 Publications



Basic Information

Catalog Number:

14951-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6778

GenBank Accession Number:

BC004132

GeneID (NCBI):

3735

UNIPROT ID:

Q15046

Full Name:

lysyl-tRNA synthetase

Calculated MW:

68 kDa

Observed MW:

68 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:200-1:800

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human, mouse, zebrafish

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293T cells, Jurkat cells, human colon tissue, HeLa cells, HepG2 cells

IHC : human brown disease,

IF/ICC : A431 cells,

Background Information

KARS (lysyl-tRNA synthetase) is a gene that encodes an enzyme critical for protein synthesis, specifically responsible for attaching the amino acid lysine to its corresponding transfer RNA (tRNA) in both the cytoplasm and mitochondria. This enzyme plays a crucial role in the process of aminoacylation, which is essential for accurate protein translation from mRNA sequences. Mutations in the KARS gene have been associated with a variety of neurological and systemic disorders, reflecting the enzyme's importance in cellular function.

Notable Publications

Author	Pubmed ID	Journal	Application
Benedetta Ruzzenente	30252186	Hum Mutat	WB
Krishnendu Khan	36037331	Proc Natl Acad Sci U S A	WB,IF
Daniela Verrigni	27891585	Clin Genet	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

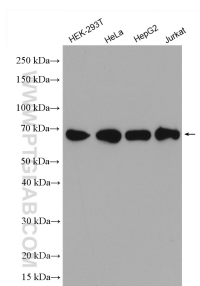
T: 4006900926

E: Proteintech-CN@ptglab.com

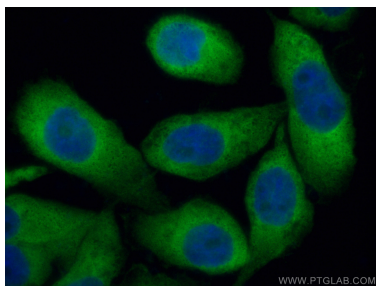
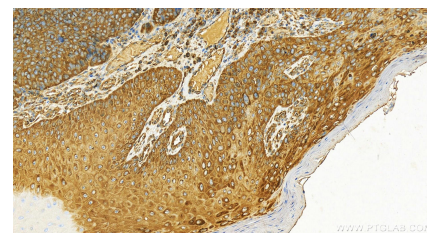
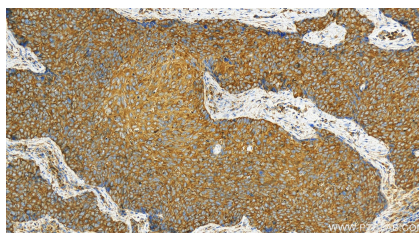
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14951-1-AP (KARS antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using KARS antibody (14951-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).