KARS Antibody

PACO31868

Product Information

Size:

50ug

Reactivity:

Human

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC, IF

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:500-1:5000, IHC:1:20-1:200, IF:1:50-1:200

Protein 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 the acceptor end of the tRNA. When secreted, acts as a signaling molecule that induces immune response through the activation of monocyte/macrophages. 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. (Microbial infection) Interacts with HIV-1 virus GAG protein, facilitating the selective packaging of tRNA3(Lys), the primer for reverse transcription initiation.

Gene ID:

KARS

Uniprot

Q15046

Synonyms:

Lysine--tRNA ligase (EC 2.7.7. -) (EC 6.1.1.6) (Lysyl-tRNA synthetase) (LysRS), KARS, KIAA0070

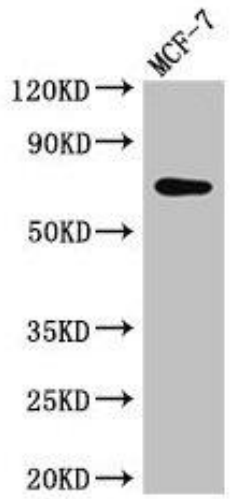
Immunogen:

Recombinant Human Lysine--tRNA ligase protein (101-400AA).

Storage:

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

Product Images



Western Blot
Positive WB detected in: MCF-7 whole cell lysate
All lanes: KARS antibody at 2.5µg/ml
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 69, 72 kDa
Observed band size: 69 kDa
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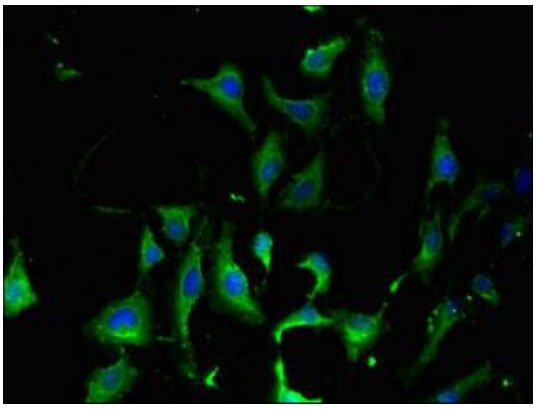
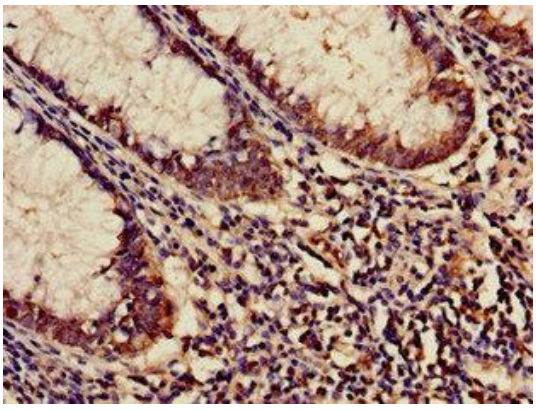


Immunofluorescent analysis of Hela cells using PACO31868 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemistry of paraffin-embedded human colon cancer using PACO31868 at dilution of 1:100.

