

🕜 Tel: +1-301-363-4651 🛛 🖂 Email: cusabio@cusabio.com 🤅 Website: www.cusabio.com 🍯

CARS Recombinant Monoclonal Antibody

Product Code	CSB-RA158403A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P49589
Immunogen	A synthesized peptide derived from human CARS
Species Reactivity	Human
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:2000
Relevance	Catalyzes the ATP-dependent ligation of cysteine to tRNA(Cys). {ECO:0000269 PubMed:30824121}.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Buffer Purification Method	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodiumazide and 50% glycerol.Affinity-chromatography
Storage Buffer Purification Method Isotype	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Affinity-chromatographyRabbit IgG
Storage Buffer Purification Method Isotype Clonality	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Affinity-chromatographyRabbit IgGMonoclonal
Storage Buffer Purification Method Isotype Clonality Product Type	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Affinity-chromatographyRabbit IgGMonoclonalRecombinant Antibody
Storage Buffer Purification Method Isotype Clonality Product Type Immunogen Species	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-chromatography Rabbit IgG Monoclonal Recombinant Antibody Homo sapiens (Human)
Storage Buffer Purification Method Isotype Clonality Product Type Immunogen Species Research Area	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Affinity-chromatographyRabbit IgGMonoclonalRecombinant AntibodyHomo sapiens (Human)Epigenetics and Nuclear Signaling; Cancer; Metabolism; Signal transduction
Storage Buffer Purification Method Isotype Clonality Product Type Immunogen Species Research Area Gene Names	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-chromatography Rabbit IgG Monoclonal Recombinant Antibody Homo sapiens (Human) Epigenetics and Nuclear Signaling; Cancer; Metabolism; Signal transduction CARS

Image



Western Blot

Positive WB detected in: Hela whole cell lysate, A549 whole cell lysate, Jurkat whole cell lysate All lanes: CARS antibody at 1:500 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 86, 83, 95 kDa Observed band size: 95 kDa

Description

To generate the CARS recombinant monoclonal antibody, CUSABIO first obtained the CARS monoclonal antibody. The immunogen used to produce the CARS monoclonal antibody is a synthesized peptide from the human CARS protein. The gene encoding the MAS1L monoclonal antibody is cloned and

1



expressed, and the resulting product is purified using affinity chromatography to ensure high purity. The CARS recombinant monoclonal antibody has been extensively validated for its specificity and quality, and it can recognize and bind specifically to the human CARS protein. This antibody has been tested and proven to work well in ELISA and WB applications.

CARS is an enzyme that belongs to the class of ligases and specifically aminoacyl-tRNA synthetases. Its main function is to catalyze the attachment of cysteine to its corresponding tRNA molecule during protein synthesis. CARS plays an essential role in maintaining the accuracy and fidelity of protein synthesis by ensuring the correct amino acid is incorporated into the growing polypeptide chain. In addition to its primary function in protein synthesis, CARS has also been implicated in other cellular processes such as the regulation of cell growth and proliferation, signal transduction, and stress response.