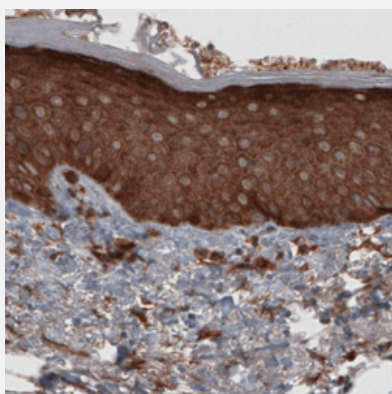


# CARS monoclonal antibody, clone CL2309

Catalog # MAB15740      Size 100 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human skin with CARS monoclonal antibody, clone CL2309 (Cat # MAB15740) shows strong cytoplasmic positivity in epidermis cells.

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against partial recombinant human CARS.
<b>Immunogen</b>	Recombinant protein corresponding to human CARS.
<b>Epitope</b>	This antibody binds to an epitope located within the peptide sequence EDSSLGFPVG as determined by overlapping synthetic peptides.
<b>Sequence</b>	SQCPLYMAARKAVRKRPNQALLENIALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSLSEATVMPYLQVLSEFREGVRKIAREQKVPEILQLSDALRDNILPELGVRFEDHEGLPTVVKLVDRNTLLKEREKRRVE
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A purification
<b>Isotype</b>	IgG2b

<b>Recommend Usage</b>	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:2500-1:5000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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## Gene Info — CARS

<b>Entrez GeneID</b>	<a href="#">833</a>
<b>Protein Accession#</b>	<a href="#">A8MVQ3</a>
<b>Gene Name</b>	CARS
<b>Gene Alias</b>	CARS1, CYSRS, MGC:11246
<b>Gene Description</b>	cysteinyl-tRNA synthetase
<b>Omim ID</b>	<a href="#">123859</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	This gene encodes a class 1 aminoacyl-tRNA synthetase, cysteinyl-tRNA synthetase. Each of the twenty aminoacyl-tRNA synthetases catalyzes the aminoacylation of a specific tRNA or tRNA isoaccepting family with the cognate amino acid. This gene is one of several located near the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq]
<b>Other Designations</b>	OTTHUMP00000012605 cysteine tRNA ligase 1, cytoplasmic cysteine translase cysteine-tRNA ligase

## Pathway

- [Aminoacyl-tRNA biosynthesis](#)

## Disease

- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Proteinuria](#)