

# CoraLite® Plus 488-conjugated AlaRS Monoclonal antibody

Catalog Number: **CL488-67909**

## Basic Information

**Catalog Number:**

CL488-67909

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG11151

**GenBank Accession Number:**

BC011451

**GeneID (NCBI):**

16

**UNIPROT ID:**

P49588

**Full Name:**

alanyl-tRNA synthetase

**Calculated MW:**

968 aa, 107 kDa

**Observed MW:**

107 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1C8H3

**Recommended Dilutions:**

IF 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC

**Species Specificity:**

Human, Mouse, Rat

**Positive Controls:**

IF : A431 cells,

## Background Information

AARS(alanyl-tRNA synthetase) is also named as AlaRS(alanine tRNA ligase 1, cytoplasmic), renal carcinoma antigen NY-REN-42 and belongs to the class-II aminoacyl-tRNA synthetase family. It can interpret the RNA code and attach specific aminoacids to the tRNAs that contain the cognate trinucleotide anticodons. AARS consists of three domains: the N-terminal catalytic domain, the editing domain and the C-terminal C-Ala domain. The editing domain removes incorrectly charged amino acids, while the C-Ala domain, along with tRNA(Ala), serves as a bridge to cooperatively bring together the editing and aminoacylation centers thus stimulating deacylation of misacylated tRNAs(PMID:19661429).

## Storage

**Storage:**

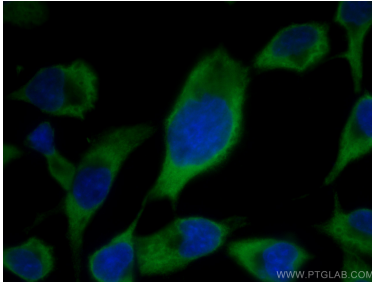
Store at -20°C. Avoid exposure to light.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using CoraLite® Plus 488 AlaRS antibody (CL488-67909, Clone: 1C8H3 ) at dilution of 1:200.