

For Research Use Only

CoraLite® Plus 488-conjugated P5CS Polyclonal antibody

Catalog Number: CL488-17719

Featured Product



Basic Information

Catalog Number:

CL488-17719

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12100

GenBank Accession Number:

BC106054

GeneID (NCBI):

5832

UNIPROT ID:

P54886

Full Name:

aldehyde dehydrogenase 18 family, member A1

Calculated MW:

795 aa, 87 kDa

Observed MW:

87 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC: 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/ICC : A431 cells,

Background Information

Delta 1-pyrroline-5-carboxylate synthetase (P5CS), also named as GSAS, P5CS, PYCS, catalyzes the ATP and the NAD(P)H-dependent conversion of L-glutamate to glutamic gamma-semialdehyde (GSA) which is the metabolic precursor for proline biosynthesis (PMID:8761662). This protein includes 2 domains: glutamate 5-kinase and gamma-glutamyl phosphate reductase. In the N-terminal section, it belongs to the glutamate 5-kinase family and in the C-terminal section, it belongs to the gamma-glutamyl phosphate reductase family. Defects in ALDH18A1 are the cause of cutis laxa, autosomal recessive, type 3A (ARCL3A) (PMID:18478038). It has 2 isoforms produced by alternative splicing.

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

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

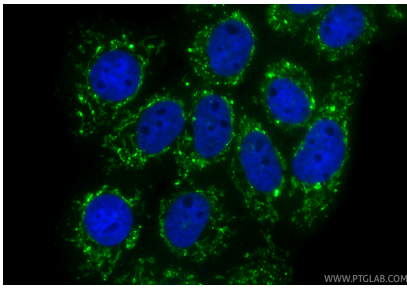
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CoraLite® Plus 488 P5CS antibody (CL488-17719) at dilution of 1:200.