

For Research Use Only

# CoraLite® Plus 488-conjugated ERO1L Monoclonal antibody

Catalog Number: CL488-67416

Featured Product



## Basic Information

Catalog Number:

CL488-67416

Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG29910

GenBank Accession Number:

BC008674

GeneID (NCBI):

30001

UNIPROT ID:

Q96HE7

Full Name:

ERO1-like (S. cerevisiae)

Calculated MW:

468 aa, 54 kDa

Observed MW:

54 kDa

Purification Method:

Protein A purification

CloneNo.:

1G12E11

Recommended Dilutions:

IF-P 1:200-1:800

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF-P

Species Specificity:

Human, Mouse, Rat

Positive Controls:

IF-P : human stomach cancer tissue,

## Background Information

ERO1L, also named as ERO1-alpha, is an essential oxidoreductase that oxidizes proteins in the endoplasmic reticulum to produce disulfide bonds. It acts by oxidizing directly P4HB/PDI isomerase through a direct disulfide exchange. It does not act as a direct oxidant of folding substrate, but relies on P4HB/PDI to transfer oxidizing equivalent. Associates with ERP44 but not with GRP54, demonstrating that it does not oxidize all PDI related proteins and can discriminate between PDI and related proteins. Its reoxidation probably involves electron transfer to molecular oxygen via FAD. Glutathione may be required to regulate its activity in the endoplasmic reticulum. It may be responsible for a significant proportion of reactive oxygen species (ROS) in the cell, thereby being a source of oxidative stress. It is required for the folding of immunoglobulin proteins. Responsible for the release of the unfolded cholera toxin from reduced P4HB/PDI in case of infection by V.cholerae, thereby playing a role in retrotranslocation of the toxin.

## 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, pH 7.3.

Aliquoting is unnecessary for -20°C storage

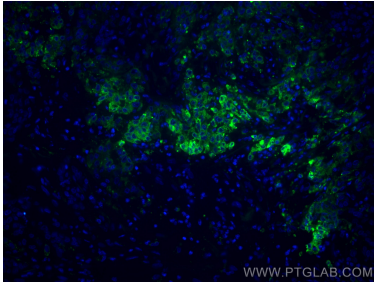
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

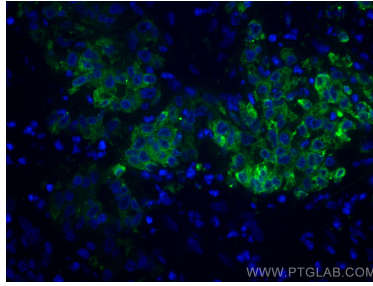
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human stomach cancer tissue using CoraLite® Plus 488 ERO1L antibody (CL488-67416, Clone: 1G12E11) at dilution of 1:200.



Immunofluorescent analysis of (4% PFA) fixed human stomach cancer tissue using CoraLite® Plus 488 ERO1L antibody (CL488-67416, Clone: 1G12E11) at dilution of 1:200.