For Research Use Only

CoraLite® Plus 488-conjugated **ERO1L Monoclonal antibody**



Purification Method:

488 nm / 515 nm

Catalog Number: CL488-67416

Basic Information

Catalog Number: GenBank Accession Number:

BC008674 Protein A purification GeneID (NCBI): CloneNo.:

100ul, Concentration: 1000 µg/ml by 30001 1G12F11

Recommended Dilutions: Source: ERO1-like (S. cerevisiae) IF 1:200-1:800

Mouse Calculated MW: Excitation/Emission maxima wavelengths:

Isotype: 468 aa, 54 kDa lgG2b Observed MW:

Immunogen Catalog Number: 54 kDa

AG29910

CL488-67416

Applications Tested Applications:

Species Specificity: Human, Mouse, Rat

Positive Controls:

IF: 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:

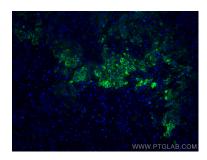
Store at -20°C. Avoid exposure to light.

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

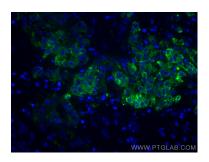
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

Selected Validation Data



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



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