

For Research Use Only

CoraLite® Plus 488-conjugated PRX5 Monoclonal antibody

Catalog Number:CL488-67599



Basic Information

Catalog Number:

CL488-67599

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG12262

GenBank Accession Number:

BC110983

GeneID (NCBI):

25824

UNIPROT ID:

P30044

Full Name:

peroxiredoxin 5

Calculated MW:

214 aa, 22 kDa

Observed MW:

17 kDa

Purification Method:

Protein G purification

CloneNo.:

1B8C5

Recommended Dilutions:

IF/ICC 1:300-1:1200

Excitation/Emission maxima
wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

human, rat

Positive Controls:

IF/ICC : HeLa cells,

Background Information

Peroxiredoxin 5 (Prx5) is a member of a family consisting of six antioxidant enzymes. Prx5 is ubiquitously expressed in various tissues including mitochondria and peroxisomes, implying that Prx5 functions as a regulator of the cellular oxidation state. Prx5 plays a critical role in protecting cells from oxidative stress by inhibiting the accumulation of reactive oxygen species and cell death. Prx5 has an intensive ROS scavenging activity because it is located in the cytosol and mitochondria. Prx5 expression was upregulated during adipogenesis and Prx5 overexpression suppressed adipogenesis by regulating cytosolic and mitochondrial ROS generation. (PMID: 29777756, PMID: 31505325, PMID: 22020876)

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:

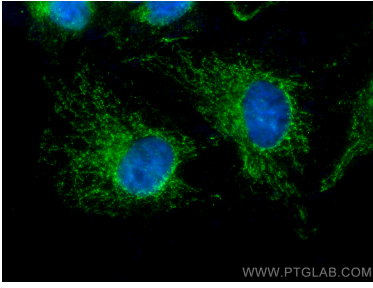
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Coralite® Plus 488 PRX5 antibody (CL488-67599, Clone: 1B8C5) at dilution of 1:600.