

For Research Use Only

CoraLite® Plus 488-conjugated MTH1 Monoclonal antibody

Catalog Number:CL488-67443



Basic Information

Catalog Number:

CL488-67443

Size:

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

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG9802

GenBank Accession Number:

BC014618

GeneID (NCBI):

4521

UNIPROT ID:

P36639

Full Name:

nudix (nucleoside diphosphate linked
moiety X)-type motif 1

Calculated MW:

179aa,20 kDa; 197aa,23 kDa

Observed MW:

19 kDa

Purification Method:

Protein G purification

CloneNo.:

2D7G4

Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a
100 µl suspension

Excitation/Emission maxima
wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human

Positive Controls:

IF/ICC : HepG2 cells,

FC (Intra) : Jurkat cells,

Background Information

MTH1, also known as NUDT1 or 8-Oxo-dGTPase, is an important repair enzyme that prevents oxidative stress-induced DNA damage through hydrolyzing mutagenic 8-oxo-dGTP into 8-oxo-dGMP. MTH1 is expressed in postmitotic neurons as well as in proliferative tissues, and it is localized both in the mitochondria and nucleus. MTH1 might be a useful marker of oxidative stress and its level increased upon oxidative stress. Increased expression of MTH1 were also found in various cancer tissues and neurodegenerative diseases.

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

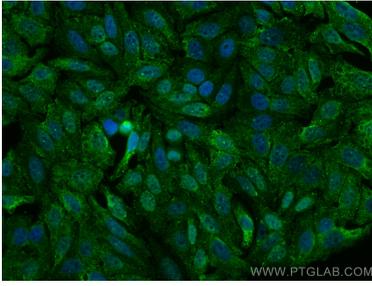
For technical support and original validation data for this product please contact:

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

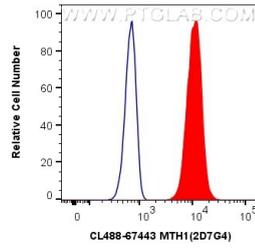
E: proteintech@ptglab.com
W: ptglab.com

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 HepG2 cells using CoraLite® Plus 488 MTH1 antibody (CL488-67443, Clone: 2D7G4) at dilution of 1:200.



1×10^6 Jurkat cells were intracellularly stained with 0.4 μ g CoraLite® Plus 488 Anti-Human MTH1 (CL488-67443, Clone:2D7G4) (red), or 0.4 μ g Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).