

For Research Use Only

# CoraLite® Plus 488-conjugated HO-1/HMOX1 Monoclonal antibody

Catalog Number: CL488-66743

Featured Product

1 Publications



## Basic Information

Catalog Number:

CL488-66743

Size:

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

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG21296

GenBank Accession Number:

BC001491

GeneID (NCBI):

3162

UNIPROT ID:

P09601

Full Name:

heme oxygenase (decycling) 1

Calculated MW:

33 kDa

Observed MW:

33 kDa

Purification Method:

Protein A purification

CloneNo.:

2D10A5

Recommended Dilutions:

IF-P: 1:50-1:500

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF-P, FC (Intra)

Cited Applications:

IF

Species Specificity:

human, mouse, rat, pig

Cited Species:

mouse

Positive Controls:

IF-P : human liver tissue, mouse spleen tissue

FC (Intra) : HeLa cells,

## Background Information

Heme oxygenase (HMOX1) catalyzes the first and rate-limiting step in the degradation of heme to yield equimolar quantities of biliverdin I $\alpha$ , carbon monoxide (CO), and iron. It has 3 isoforms: HO-1 is highly inducible, whereas HO-2 and HO-3 are constitutively expressed (PMID:10194478). Heme oxygenase-1 (HO-1) is expressed in many tissues and vascular smooth muscle cells, and endothelial cells (PMID:15451051) and has been identified as an important endogenous protective factor induced in many cell types by various stimulants, such as hemolysis, inflammatory cytokines, oxidative stress, heat shock, heavy metals, and endotoxin (PMID: 11522663). And the full-length HO-1 is very unstable and susceptible to truncation that generates an inactive, soluble form (28 kDa) (James R. Reed, Pharmacology, 535-568).

## Notable Publications

Author	Pubmed ID	Journal	Application
Lisa K McClendon	38969334	J Mol Cell Cardiol	IF

## 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

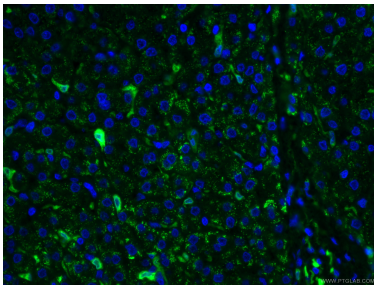
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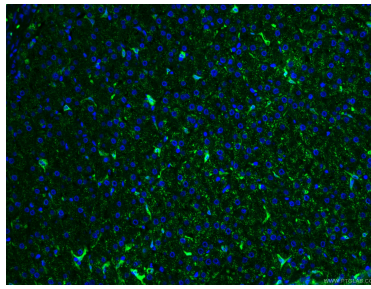
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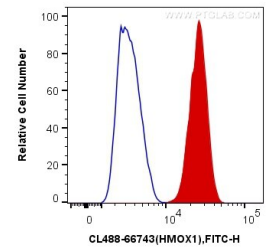
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human liver tissue using CL488-66743 (HO-1/HMOX1 antibody) at dilution of 1:100.



Immunofluorescent analysis of (4% PFA) fixed human liver tissue using CL488-66743 (HO-1/HMOX1 antibody) at dilution of 1:100.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human HO-1/HMOX1 (CL488-66743, Clone:2D10A5) (red), or 0.4 ug Mouse IgG2a Isotype Control (CL488-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).