For Research Use Only

CoraLite®594-conjugated HO-1/HMOX1 Monoclonal antibody



Catalog Number: CL594-66743

Basic Information

Catalog Number: CL594-66743

Size: 1000 µg/ml Source: Mouse Isotype: IgG2a

Immunogen Catalog Number:

AG21296

heme oxygenase (decycling) 1 Calculated MW: 33 kDa

GenBank Accession Number:

Observed MW: 33 kDa

BC001491

3162

P09601

GeneID (NCBI):

UNIPROT ID:

Full Name:

Purification Method: Protein A purification

CloneNo.:

Recommended Dilutions:

IF-P 1:50-1:500

2D10A5

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications: IF-P, FC (Intra) Species Specificity: human, mouse, rat, pig Positive Controls:

IF-P: mouse spleen tissue, human liver tissue

Background Information

Heme oxygenase (HMOX1) catalyzes the first and rate-limiting step in the degradation of heme to yield equimolar quantities of biliverdin Ixa, 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, infiammatory cytokines, oxidative stress, heat shock, heavy metals, and endotoxin (PMID: 11522663). And the fulllength HO-1 is very unstable and susceptible to truncation that generates an inactive, soluble form (28 kDa) (James R. Reed, Pharmacology, 535-568).

Storage

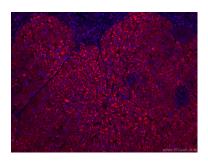
Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment. Storage Buffer

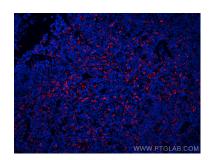
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

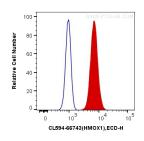
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human liver tissue using Coralite®594-conjugated HO-1/HMOX1 antibody (CL594-66743, Clone: 2D10A5) at dilution of 1:100.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using Coralite® 594 HO-1/HMOX1 antibody (CL594-66743, Clone: 2D10A5) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HeLa cells were intracellularly stained with 0.2 ug CoraLite®594 Anti-Human HO-1/HMOX1 (CL594-66743, Clone:2D10A5) (red), or 0.2 ug Mouse [gG2a lsotype Control (CL594-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).