

For Research Use Only

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



Catalog Number:CL594-66743

Basic Information

Catalog Number: CL594-66743	GenBank Accession Number: BC001491	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 3162	CloneNo.: 2D10A5
Source: Mouse	UNIPROT ID: P09601	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2a	Full Name: heme oxygenase (decycling) 1	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG21296	Calculated MW: 33 kDa	
	Observed MW: 33 kDa	

Applications

Tested Applications: FC (Intra), IF-P	Positive Controls: IF : human liver tissue,
Species Specificity: Human, Mouse, Rat, Pig	

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, 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).

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:

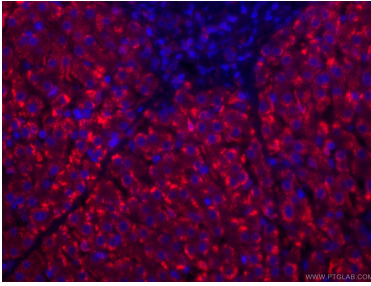
T: 4006900926

E: Proteintech-CN@ptglab.com

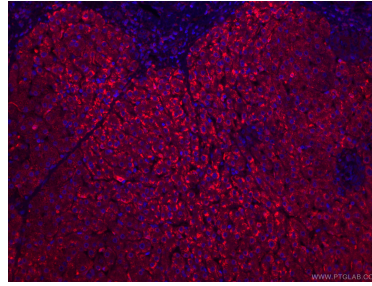
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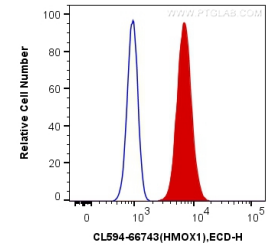
Selected Validation Data



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.



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1X10⁶ 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 IgG2a Isotype Control (CL594-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).