

**DATASHEET**
**HO-1 Rabbit Monoclonal Antibody(C3087)**
**CAT. NO. AMA02699**
**KEY FEATURES**

Target	HO-1	Source / Host	Rabbit
Reactivity	Mouse	Clonality	Monoclonal
Applications	WB, IF/ICC, IP	Conjugation	Unconjugated
Form / Buffer	Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.	Storage	at-20°C

**BACKGROUND**

Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:100
IP	1:10 - 1:50

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit monoclonal antibody to HO-1
Specificity	Recognizes endogenous levels of HO-1 protein.
Antibody Type	Primary antibody
Immunogen	A synthetic peptide of human Heme Oxygenase 1
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 33 kD; Observed: 33 kD
Form/Buffer	Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.
Alternative Names	HO; HO1; Heme oxygenase 1; HO-1
Gene Symbol	HMOX1
Entrez Gene	15368(Mouse)
SwissProt	P14901(Mouse); P06762(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

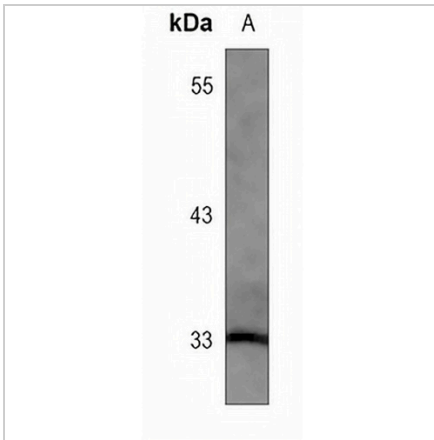
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

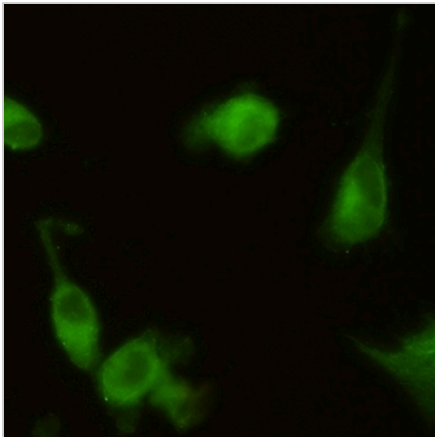
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**DATA**



Western blot analysis of HO-1 expression in NIH3T3 (A) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 33 kD)



Immunofluorescent analysis of HO-1 staining in U87MG cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.