

ARG54649 anti-Heme Oxygenase 1 antibody [1F12.A6]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1F12.A6] recognizes Heme Oxygenase 1
Tested Reactivity	Hu, Ms, Bov
Tested Application	ELISA, WB
Specificity	This antibody recognizes human, mouse, and bovine HO-1. Other species have not been tested. It does not cross-react with HO-2.
Host	Mouse
Clonality	Monoclonal
Clone	1F12.A6
Isotype	IgG1
Target Name	Heme Oxygenase 1
Species	Human
Immunogen	Synthetic peptide around aa. 1-30 of Human heme-oxygenase 1.
Conjugation	Un-conjugated
Alternate Names	bK286B10; Heme oxygenase 1; HO-1; EC 1.14.99.3; HMOX1D; HSP32

Application Instructions

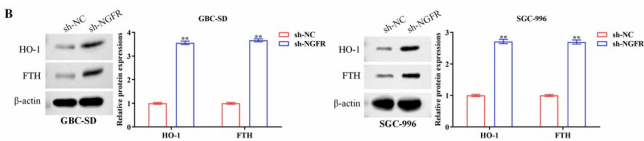
Application table	Application	Dilution
	ELISA	1 µg/ml
	WB	0.5-1 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human cell line lysates such as A431, A549, HeLa, HepG2, Jurkat, and MCF7.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.
<div>Bioinformation</div>	
Gene Symbol	HMOX1
Gene Full Name	heme oxygenase 1
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. [provided by RefSeq, Jul 2008]
Function	Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestered and destroyed. Exhibits cytoprotective effects since excess of free heme sensitizes cells to undergo apoptosis. [UniProt]
Highlight	Related products: Heme Oxygenase 1 antibodies ; Heme Oxygenase 1 ELISA Kits ; Heme Oxygenase 1 Duos / Panels ; Anti-Mouse IgG secondary antibodies ; Related news: Keap1-Nrf2-ARE antibody panel is launched
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Gene Regulation antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	33 kDa

Images

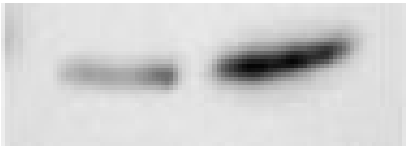


ARG54649 anti-Heme Oxygenase 1 antibody [1F12.A6] WB image

Western blot: GBC-SD and SGC-996 cell stained with ARG54649 anti-Heme Oxygenase 1 antibody [1F12.A6], [ARG41439 anti-Ferritin Heavy Chain antibody](#) and [ARG62346 anti-beta Actin antibody \[BA3R\]](#)

From Desen Fan et al. Heliyon. (2024), [doi: 10.1016/j.heliyon.2024.e30260](#), Fig. 4B.

HO-1



ARG54649 anti-Heme Oxygenase 1 antibody [1F12.A6] WB image

Western blot: GBC-SD cells stained with ARG54649 anti-Heme Oxygenase 1 antibody [1F12.A6].

From Desen Fan et al. Heliyon (2024), [doi: 10.1016/j.heliyon.2024.e30260](#), Fig. 4. B.