

HMOX2/HO-2 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 36	Source/Isotype: Rabbit	UniProt ID: #P30519	Entrez-Gene Id: 3163
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	HMOX2/HO-2 Antibody recognizes endogenous levels of total HMOX2/HO-2 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Met262 of human HMOX2/HO-2 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Heme oxygenases (HMOX or HO) catalyze the rate-limiting step of the oxidative degradation of heme into iron, carbon monoxide, and biliverdin (1). Biliverdin is then converted to bilirubin (2). Heme is a strong pro-oxidant whereas bilirubin is a strong antioxidant (2). Research studies suggest dysregulation of heme oxygenases may contribute to oxidative stress-related diseases (2). There are three isozymes of heme oxygenases: HMOX1/HO-1, HMOX2/HO-2, and HMOX3/HO-3 (1,2). HMOX1/HO-1 is inducible by heme and other stress stimuli (1,3). HMOX2/HO-2 and HMOX3/HO-3 are constitutively expressed (1,3).	
Background References	<ol style="list-style-type: none"> 1. Piotrkowski, B. et al. (2009) <i>J Endocrinol</i> 203, 155-65. 2. Synowiec, E. et al. (2012) <i>Mol Biol Rep</i> 39, 2081-7. 3. Otterbein, L.E. and Choi, A.M. (2000) <i>Am J Physiol Lung Cell Mol Physiol</i> 279, L1029-37. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	H: Human	
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