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## **HO-1** Antibody



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Applications: WB	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 28	Source: Rabbit	UniProt ID: #P14901	Entrez-Gene Id: 15368	
Product Usage Information	Ар	plication		Dilution			
	We	estern Blotting		1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		HO-1 Antibody recognizes endogenous levels of total HO-1 protein.					
Source / Purificat	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of mouse HO-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	cark role incli exp indu hyp	Heme oxygenase (HO) is the rate-limiting enzyme in the catabolism of heme that results in the release of carbon monoxide, iron, and biliverdin (1). The products of this enzymatic reaction play important biological roles in antioxidant, anti-inflammatory, and cytoprotective functions (2). HO comprises two isozymes, including the constitutively expressed HO-2 isozyme and the inducible HO-1 isozyme (3). Inducible HO-1 is expressed as an adaptive response to several stimuli, including heme, metals, and hormones (4). The induction of HO-1 has been implicated in numerous disease states, such as transplant rejection, hypertension, atherosclerosis, Alzheimer's disease, endotoxic shock, diabetes, inflammation, and neurological disorders (1,5).					
Background Refe	2. C 3. C 4. M	<ol> <li>Abraham, N.G. and Kappas, A. (2008) <i>Pharmacol Rev</i> 60, 79-127.</li> <li>Otterbein, L.E. et al. (2003) <i>Trends Immunol</i> 24, 449-55.</li> <li>Cruse, I. and Maines, M.D. (1988) <i>J Biol Chem</i> 263, 3348-53.</li> <li>Maines, M.D. (1988) <i>FASEB J</i> 2, 2557-68.</li> <li>Schipper, H.M. et al. (2009) <i>Curr Alzheimer Res</i> 6, 424-30.</li> </ol>					

**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** 

WB: Western Blotting

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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