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#5853

HO-1 (D60G11) Rabbit mAb

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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit IgG	UniProt ID: #P09601	Entrez-Gene Id: 3162
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Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:100
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	HO-1 (D60G11) Rabbit mAb recognizes endogenous levels of total HO-1 protein.	
Species predicted to react based on 100% sequence homology	Monkey	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala110 of human HO-1 protein.	
Background	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 References	<ol style="list-style-type: none"> 1. Abraham, N.G. and Kappas, A. (2008) <i>Pharmacol Rev</i> 60, 79-127. 2. Otterbein, L.E. et al. (2003) <i>Trends Immunol</i> 24, 449-55. 3. Cruse, I. and Maines, M.D. (1988) <i>J Biol Chem</i> 263, 3348-53. 4. Maines, M.D. (1988) <i>FASEB J</i> 2, 2557-68. 5. Schipper, H.M. et al. (2009) <i>Curr Alzheimer Res</i> 6, 424-30. 	

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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