

13966

HO-1 (E3F4S) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit IgG	UniProt ID: #P14901	Entrez-Gene Id: 15368
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 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 (E3F4S) Rabbit mAb recognizes endogenous levels of total HO-1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu118 of mouse 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		 Abraham, N.G. and Kappas, A. (2008) <i>Pharmacol Rev</i> 60, 79-127. Otterbein, L.E. et al. (2003) <i>Trends Immunol</i> 24, 449-55. Cruse, I. and Maines, M.D. (1988) <i>J Biol Chem</i> 263, 3348-53. Maines, M.D. (1988) <i>FASEB J</i> 2, 2557-68. Schipper, H.M. et al. (2009) <i>Curr Alzheimer Res</i> 6, 424-30. 				
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed 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 M: Mouse R: Rat				
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