

#32790 Store at -20C

HMOX2/HO-2 (D9J9U) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Hm Mk	Endogenous	36	Rabbit IgG	#P30519	3163

Product Usage Information	Application Western Blotting	Dilution 1:1000
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	HMOX2/HO-2 (D9J9U) Rabbit mAb recognizes endogenous levels of total HMOX2/HO-2 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala131 of human HMOX2/HO-2 protein.	
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	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	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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