

0081

HO-1 Antibody



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

| Applications: W | Reactivity: H M | Sensitivity: Endogenous | MW (kDa): 28 | Source/Isotype: Rabbit | UniProt ID: #P14901 | Entrez-Gene Id: 15368 |
|------------------------------|--------------------|--|------------------------|----------------------------------|------------------------|--------------------------|
| Product Usage Information | 9 | Application Western Blotting | | | Dilution 1:1000 | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ 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 / Purification | | 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 | | 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 | ivity | Species reactivity is d | etermined 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 | | | | |
| Cross-Reactivity Key | | H: Human M: Mouse | | | | |
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