

HMOX2/HO-2 Antibody

✓ 100 µl
(10 western blots)

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New 10/12

For Research Use Only. Not For Use In Diagnostic Procedures.

| Applications W, IP Endogenous | Species Cross-Reactivity* H | Molecular Wt. 36 kDa | Source Rabbit** |
|-------------------------------------|--------------------------------|-------------------------|--------------------|
|-------------------------------------|--------------------------------|-------------------------|--------------------|

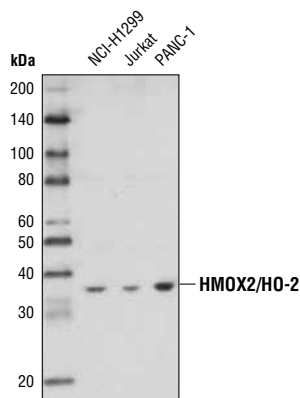
Background: Heme oxygenases (HMOX or HO) catalyze the rate-limiting step of the oxidative degradation of heme into iron, carbon monoxide, and biliverdin (1). Biliverdin is then converted to bilirubin (2). Heme is a strong pro-oxidant whereas bilirubin is a strong antioxidant (2). Research studies suggest 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).

Specificity/Sensitivity: HMOX2/HO-2 Antibody recognizes endogenous levels of total HMOX2/HO-2 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Met262 of human HMOX2/HO-2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Piotrkowski, B. et al. (2009) *J Endocrinol* 203, 155-65.
- (2) Synowiec, E. et al. (2012) *Mol Biol Rep* 39, 2081-7.
- (3) Otterbein, L.E. and Choi, A.M. (2000) *Am J Physiol Lung Cell Mol Physiol* 279, L1029-37.



Western blot analysis of extracts from NCI-H1299, Jurkat, and PANC-1 cells using HMOX2/HO-2 Antibody.

Entrez-Gene ID #3163
Swiss-Prot Acc. #P30519

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:50

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.