

Store at
-20C
#86806**HO-1 (E9H3A) Rabbit mAb**

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Applications: W, IP, IF-F, IF-IC	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit IgG	UniProt ID: #P14901	Entrez-Gene Id: 15368
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:1600
1:1600

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 (E9H3A) 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 Glu251 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

1. Abraham, N.G. and Kappas, A. (2008) *Pharmacol Rev* 60, 79-127.
2. Otterbein, L.E. et al. (2003) *Trends Immunol* 24, 449-55.
3. Cruse, I. and Maines, M.D. (1988) *J Biol Chem* 263, 3348-53.
4. Maines, M.D. (1988) *FASEB J* 2, 2557-68.
5. Schipper, H.M. et al. (2009) *Curr Alzheimer Res* 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 **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

M: Mouse

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