

HO-1 Rabbit monoclonal antibody

Catalog: MB66280

Host: Rabbit

Reactivity: Mouse

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. The products of this enzymatic reaction play important biological roles in antioxidant, anti-inflammatory, and cytoprotective functions. HO comprises two isozymes, including the constitutively expressed HO-2 isozyme and the inducible HO-1 isozyme. Inducible HO-1 is expressed as an adaptive response to several stimuli, including heme, metals, and hormones. 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.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 33 kDa

Swiss-Prot:

P14901/P06762

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/50 - 1/100), IP (1/10 - 1/50)

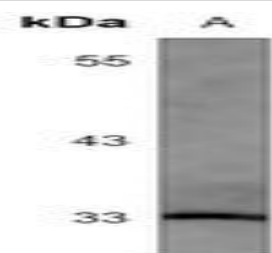
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

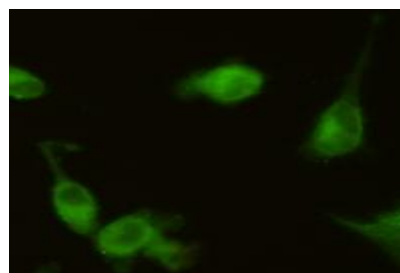
Specificity:

Recognizes endogenous levels of HO-1 protein.

DATA:



Western blot analysis of HO-1 expression in NIH3T3 (A) whole cell lysates.



Immunofluorescent analysis of HO-1 staining in U87MG cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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