

Heme-Oxygenase-1 (HO-1) Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 13062 (clone 6B8-2F2)

Format: 100ug in PBS (1mg/ml), pH 7.4, 0.1% sodium azide, 50% glycerol. Purified by Protein G affinity chromatography.

BACKGROUND

Heme-oxygenase is an enzyme that catalyzes heme catabolism to yield biliverdin, iron, and carbon monoxide (CO). There are three isoforms of heme-oxygenase: HO-1, HO-2, and HO-3. HO-1 and HO-2 have been identified as the two major isoforms in mammals. HO-1, also known as heat shock protein 32 (Hsp32) is induced by most oxidative stress inducers, cytokines, inflammatory agents, and heat shock. HO-1 deficiency appears to cause reduced stress defense, a pro-inflammatory tendency, susceptibility to atherosclerotic lesion formation, endothelial cell injury, and growth retardation. Therefore, up-regulation of HO-1 is one of the major defense mechanisms against oxidative stress.

SPECIFICATION SUMMARY

Antigen: His-tagged rat heme-oxygenase-1 (HO-1)

Accession no.: NP_036712.1

Host Species: Mouse

Antibody Class: IgG1

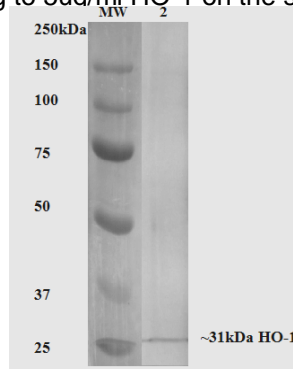
Specificity: This antibody recognizes human, mouse, and rat HO-1. It does not cross-react with HO-2.

APPLICATIONS

ELISA: confirmed with antibody at 1-10ug/ml binding to 5ug/ml HO-1 on the solid phase.

Immunoblotting: confirmed with antibody at 1.0-2.0ug/ml and 20ug of rat kidney lysate. A band of ~31kDa is detected. *Positive control:* Rat kidney lysate.

These are recommended concentrations; enduser should determine optimal concentrations for their applications.



DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freeze-thaw cycles.

For in vitro investigational use only. Not intended for diagnostic or therapeutic applications.