

Heme Oxygenase-2 Polyclonal Antibody

CATALOG NO:	3392-30T 30 µg (Trial size) 3392-100 100 µg
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide surrounding amino acid 34 of human HO-2 (Internal ID# BV-A2)
SPECIES REACTIVITY:	Human, Mouse, Rat, Hamster, Monkey

FORMULATION:

0.5 mg/ml affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND:

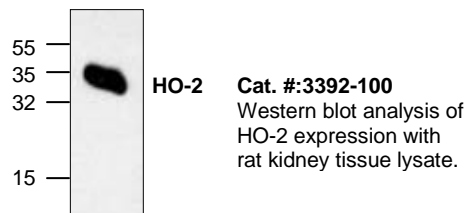
Heme oxygenase (HO) is a microsomal enzyme that oxidatively cleaves heme, a pro-oxidant, into carbon monoxide and biliverdin. Two heme oxygenase isozymes, termed HO-1 and HO-2, have been identified so far. At the amino acid level, HO-1 and HO-2 are 42% homologous. However, each isozyme is evolutionary highly conserved. HO-1 is the inducible form of the enzyme and is therefore also referred to as stress protein Hsp32. Expression of HO-1 can be induced by a variety of stimuli such as heme, metals, hormones, UV radiation and sulfhydryl depleting agents. In contrast, HO-2 is the constitutive form of the enzyme. It is not inducible by exogenous stimuli and HO-2 is the most prevalent form in most tissues, except the spleen where HO-1 levels are predominant under normal conditions.

SPECIFICITY:

The antibody recognizes ~36 kDa Heme-Oxygenase-2 of human, mouse, rat, hamster, and monkey origins. Blocking peptide (Cat.# 3392BP-50) is available separately.

APPLICATION:

The antibody has been used in Western blotting (0.5-4 µg/ml). Per researcher's feedback, it can also be used in immunoprecipitation (20 µg/ml) and immunohistochemistry (20 µg/ml, frozen section tested). However, the optimal concentrations should be determined individually.



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