

# **DATA SHEET**

For research use only

**CATALOG #**: 3392-100

**AMOUNT**: 100 μg

LOT #: \_\_\_\_\_

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:

100 μg (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/defrost cycles.

#### BACKGROUND:

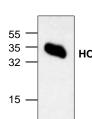
Heme oxygenase (HO) is a microsomal enzyme that oxidatively cleaves heme, a pro-oxidant, into carbon monoxide and biliverdin. Two heme oxygenase isozymes, termed HO-1 and HO-2, have been identified so far. At the amino acid level, HO-1 and HO-2 are 42% homologous. However, each isozyme is evolutionary 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 constituitive form of the enzyme. It is not inducible by exogeneous 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  $\mu$ g/ml). Per researcher's feedback, it can also be used in immunoprecipitation (20  $\mu$ g/ml) and immunohistochemistry (20  $\mu$ g/ml, frozen section tested). However, the optimal concentrations should be determined individually.



Cat. #:3392-100

Western blot analysis of HO-2 expression with rat kidney tissue lysate.

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Gentaur Molecular Products Voortstraat 49 1910 Kampenhout, Belgium