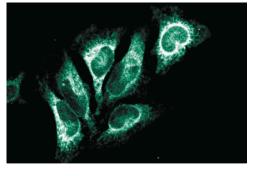
# Technical Data Sheet Purified Mouse Anti-Heme Oxygenase 1

Product Information	
Material Number:	610713
Size:	150 µg
Concentration:	250 µg/ml
Clone:	23/Heme Oxygenase 1
Immunogen:	Human Heme Oxygenase 1 (HO-1) aa. 150-286
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Target MW:	32 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09\%$ sodium azide.

### Description

Heme oxygenases 1 and 2 (HO-1, HO-2) cleave the heme molecule, resulting in the production of carbon monoxide (CO) and biliverdin. HO-1 is a 288 amino acid monooxygenase with a molecular weight of 32 kDa. While HO-2 is constitutively expressed in tissues, HO-1 is rapidly induced by several stimuli such as lutathione depletion, hemin, heat shock, heavy metals, oxidative stress, oxidized LDL, anoxia, and endotoxic shock. Similar to nitric oxide (NO), CO activates guanylate cyclase and reduces platelet aggregation. Several conditions that increase NO also induce HO-1 expression and activity. This suggests that NO synthases, Cox-2, and HO-1 are part of a general defense mechanism against stress and pathogen invasion.





Western blot analysis of Heme Oxygenase 1 on SW13 Iysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of Heme Oxygenase 1. HeLa

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

### **Application Notes**

Ap	plication	

Western blot	Routinely Tested	
Immunofluorescence	nce Tested During Development	
Immunoprecipitation	Not Recommended	
Immunohistochemistry	Not Recommended	

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## **Product Notices**

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

#### References

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