

## Datasheet: 4915-1050

<b>Description:</b>	RABBIT ANTI HUMAN HEME OXYGENASE 1
<b>Specificity:</b>	HEME OXYGENASE 1
<b>Other names:</b>	HO-1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/50 - 1/1000
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting (1)	▪			1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

(1) **This antibody detects a band of approximately 32kDa under reducing conditions.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Bovine, Mouse, Rat, Pig Does not react with: Dog <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.065% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Synthetic peptide with the amino acid sequence HDLSEALKEATKEVHC corresponding to residues 12-25 (+C-NH <sub>2</sub> of human heme oxygenase 1.

**External Database  
Links**

**UniProt:**

[P09601](#) [Related reagents](#)

**Entrez Gene:**

[3162](#) HMOX1 [Related reagents](#)

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**Synonyms**

HO, HO1

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**Specificity**

**Rabbit anti Human heme oxygenase 1 antibody** recognizes human heme oxygenase-1 (HO-1), a 288 amino acid enzyme with a crucial role in heme catabolism, cleaving the heme ring to form biliverdin which is further processed to form bilirubin by a reductase enzyme. HO-1 activity is highest in the spleen where it is involved in the processing of senescent erythrocytes ([Delaby et al. 2012](#)). HO-1 expression can be increased during cellular stress, including heat shock ([Ewing et al. 1992](#)). Baseline levels of expression are high in certain tissues, including spleen and liver. Enriched enzyme preparations are recommended for experimental analysis.

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**Histology Positive  
Control Tissue**

Human spleen  
Human kidney  
Porcine arteries

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**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

6 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

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