

Datasheet: 4870-3979G

**BATCH NUMBER 1601**

<b>Description:</b>	SHEEP ANTI HUMAN HEMOGLOBIN
<b>Specificity:</b>	HEMOGLOBIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

## 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
ELISA	▪			
Western Blotting	▪			1/100 - 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.

### Target Species

Human

### Species Cross Reactivity

Reacts weakly with: Bovine

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Antiserum Preparation

Antisera to human hemoglobin were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography on Protein G.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

<b>Approx. Protein Concentrations</b>	IgG concentration 5.0mg/ml
<b>Immunogen</b>	Hemoglobin purified from human erythrocytes
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P68871</a>      <a href="#">Related reagents</a></p> <p><a href="#">P69905</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">3043</a>    HBB    <a href="#">Related reagents</a></p> <p><a href="#">3040</a>    HBA2   <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2114441
<b>Specificity</b>	<p><b>Sheep anti Human Hemoglobin antibody</b> recognizes human hemoglobin, a ~66 kDa metalloprotein composed of four globular subunits each of which is associated with an iron-containing heme group. The heme group is involved with oxygen transport from the lungs to the tissues and the globin molecule plays a major role in transporting carbon dioxide in the reverse direction.</p> <p>Hemoglobin is found in the erythrocytes of all vertebrates. There is a wide diversity of amino acid sequences and substitutions within mammalian hemoglobins, however the molecular weight is generally around 66 kDa with an iron content of about 0.34%. The level of hemoglobin in the blood is used in the diagnosis of anemia; levels in the feces are indicative of various clinical conditions.</p> <p>Sheep anti Human Hemoglobin antibody shows &lt;10% cross-reactivity with bovine hemoglobin.</p>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at:</p> <p><a href="https://www.bio-rad-antibodies.com/SDS/4870-3979G">https://www.bio-rad-antibodies.com/SDS/4870-3979G</a></p> <p>10040</p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

'M363154:200528'

**Printed on 25 Mar 2023**

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)