

## Datasheet: OBT1975

<b>Description:</b>	MOUSE ANTI HUMAN HEPARANASE-1
<b>Specificity:</b>	HEPARANASE-1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HP3/17
<b>Isotype:</b>	IgG2b
<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
Immunohistology - Frozen			■	
Immunohistology - Paraffin	■			1/40
ELISA			■	
Western Blotting	■			1/4000

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 appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Xenopus

**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

### Preparation

Purified IgG prepared by affinity chromatography on Protein G from ascites

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.01% Thiomersal

<b>Approx. Protein Concentrations</b>	IgG concentration 4.0 mg/ml
<b>Immunogen</b>	Polypeptide from the 50 kDa subunit of heparanase.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9Y251</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">10855</a>    HPSE    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HEP, HPA, HPA1, HPR1, HPSE1, HSE1
<b>RRID</b>	AB_2120722
<b>Specificity</b>	<p><b>Mouse anti Human Heparanase-1 antibody, clone HP3/17</b> recognizes heparanase-1, also know as HPA1, an endo-beta-D-glucuronidase that degrades heparan sulfate proteoglycans (HSPGs) in the extracellular matrix through cleavage of the heparan sulfate side chains.</p> <p>Heparanase-1 is a heterodimer that is produced as a 65 kDa latent precursor, consisting of an 8 kDa subunit, a 50 kDa subunit and a linker peptide. Activation of Heparanase-1 occurs through cleavage of the linker peptide, releasing the 8 kDa subunit from the active 50 kDa subunit.</p> <p>Mouse anti Heparanase-1 has been reported to recognize heparanase-1 in xenopus by western blotting (<a href="#">Bertolesi et al. 2008</a>)</p>
<b>Purity</b>	98% by SDS PAGE
<b>Western Blotting</b>	OBT1975 detects bands of approximately 50kDa (corresponding to the subunit containing the active site) and 65kDa (the precursor of heparanase-1) when purified recombinant human heparanase samples are used.
<b>References</b>	1. Stuart, H.M. <i>et al.</i> (2015) Urinary Tract Effects of HPSE2 Mutations. <a href="#">J Am Soc Nephrol. 26 (4): 797-804.</a>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: 10094: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf</a>

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

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)

'M406020:220916'

Printed on 16 Sep 2022