Datasheet: OBT1975

**Description:** MOUSE ANTI HUMAN HEPARANASE-1

**Specificity:** HEPARANASE-1

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** HP3/17

**Isotype:** IgG2b

**Quantity:** 50 µg

**RRID** AB_2120722

**Applications**

<table>
<thead>
<tr>
<th>Method</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<tr>
<td>Western Blotting</td>
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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).

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.

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.01% Thiomersal

**Approx. Protein Concentrations**

IgG concentration 4.0 mg/ml

**Immunogen**

Polypeptide from the 50 kDa subunit of heparanase.
**External Database Links**

- UniProt: Q9Y251
- Entrez Gene: 10855

**Synonyms**

- HEP, HPA, HPA1, HPR1, HPSE1, HSE1

**Specificity**

Mouse anti Human Heparanase-1 antibody, clone HP3/17 recognizes heparanase-1, also known 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.

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.

Mouse anti Heparanase-1 has been reported to recognize heparanase-1 in Xenopus by Western blotting ([Bertolesi et al. 2008](https://academic.oup.com/jn/article-abstract/119/2/797/1990715)).

**Purity**

98% by SDS PAGE

**Western Blotting**

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.

**References**


**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.

**Guarantee**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG IgA IgM (STAR87...): *Alk. Phos.*; *HRP*
- Goat Anti Mouse IgG (STAR77...): *HRP*
- Rabbit Anti Mouse IgG (STAR12...): *RPE*
- Rabbit Anti Mouse IgG (STAR8...): *DyLight@800*
- Rabbit Anti Mouse IgG (STAR13...): *HRP*
- Goat Anti Mouse IgG (STAR76...): *RPE*
Goat Anti Mouse IgG (STAR70...) \textbf{FITC}
Goat Anti Mouse IgG (Fc) (STAR120...) \textbf{FITC, HRP}
Rabbit Anti Mouse IgG (STAR9...) \textbf{FITC}
Human Anti Mouse IgG2b (HCA038...) \textbf{FITC}
Goat Anti Mouse IgG (H/L) (STAR117...) \textbf{Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP}

\textbf{Recommended Negative Controls}

\textbf{MOUSE IgG2b NEGATIVE CONTROL (MCA691)}

<table>
<thead>
<tr>
<th>North &amp; South</th>
<th>Tel: +1 800 265 7376</th>
<th>Worldwide</th>
<th>Tel: +44 (0)1865 852 700</th>
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