

Datasheet: OBT1975X

Description:	MOUSE ANTI HUMAN HEPARANASE-1
Specificity:	HEPARANASE-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HP3/17
Isotype:	IgG2b
Quantity:	0.15 mg

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.

	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

Approx. Protein Concentrations	IgG concentration 4.0 mg/ml
Immunogen	Polypeptide from the 50 kDa subunit of heparanase.
External Database Links	UniProt: Q9Y251 Related reagents Entrez Gene: 10855 HPSE Related reagents
Synonyms	HEP, HPA, HPA1, HPR1, HPSE1, HSE1
RRID	AB_2120846
Specificity	Mouse anti Human Heparanase-1 antibody, clone HP3/17 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. 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)
Purity	98% by SDS PAGE
Western Blotting	OBT1975X 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	1. Stuart, H.M. <i>et al.</i> (2015) Urinary Tract Effects of HPSE2 Mutations. J Am Soc Nephrol. 26 (4): 797-804.
Storage	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. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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