Datasheet: OBT1975G

Description:	MOUSE ANTI HUMAN HEPARANASE-1
Specificity:	HEPARANASE-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HP3/17
Isotype:	IgG2b
Quantity:	0.1 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.
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 3.57 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
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. *et al.* (2015) Urinary Tract Effects of HPSE2 Mutations. J Am Soc Nephrol. 26 (4): 797-804.
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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10094 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG2b (HCA038...)	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
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