

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

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 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
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)
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	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	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

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