

Datasheet: OBT1698

**BATCH NUMBER 153537**

<b>Description:</b>	MOUSE ANTI HEPARIN/HEPARAN SULFATE
<b>Specificity:</b>	HEPARIN/HEPARAN SULFATE
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	T320.11
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1 - 10ug/ml
Western Blotting	▪			1/500 - 1/1000
Radioimmunoassays	▪			1 - 10ug/ml

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.

<b>Target Species</b>	Broad
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate Buffered Saline
<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

**Specificity** **Mouse anti Heparin/Heparan sulfate, clone T320.11**, recognizes the chemically related  $\alpha\beta$ -linked glycosaminoglycans heparin and heparan sulfate.

Both heparin and heparan sulfate are composed of alternating sequences of glucosamine and uronic acid with heparin being the more heavily sulfated polymer ([Gallagher & Walker, 1985](#)).

**References**

1. Shibata, S. *et al.* (1993) Monoclonal antibodies to heparan sulfate inhibit the formation of thrombin-antithrombin III complexes. [Clin Immunol Immunopathol. 67 \(3 Pt 1\): 264-72.](#)
2. Coles, C.H. *et al.* (2011) Proteoglycan-specific molecular switch for RPTP $\sigma$  clustering and neuronal extension. [Science. 332 \(6028\): 484-8.](#)
3. Kato, R. *et al.* (2017) Heparan sulfate storage in the cardiac conduction system triggers atrioventricular block. [Brain Dev. 39 \(5\): 418-421.](#)

**Further Reading**

1. Gallagher, J.T. & Walker, A. (1985) Molecular distinctions between heparan sulphate and heparin. Analysis of sulphation patterns indicates that heparan sulphate and heparin are separate families of N-sulphated polysaccharides. [Biochem J. 230 \(3\): 665-74.](#)

**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** 12 months from date of despatch

**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/OBT1698>  
10040

**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
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 (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

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