

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti Bovine Heparan Sulfate Proteoglycan

With HRP-conjugated Secondary Antibody

Catalog No.Target SpeciesIsotypeDS-MB-01448BovineIgG1

Specificity

DS-MB-01448, also known as HSPG, is specific for heparan sulfate proteoglycan protein core of basement membrane. Heparan sulfate proteoglycans (HSPGs) are found on cell surfaces and in the extracelluar matrix of all mammalian tissues and consist of an unbranched chain of repeating disaccharide units containing glucosamine and hexuronic acid. These chains are attached to protein cores via serine residues through a tetrasaccharide linkage region. HSPGs differ in their protein cores that are thought to determine the location of HSPG in the cell membrane (syndecan and glypican) and extracellular matrix (perlecan and dystroglycan).4930-0004 detects a >200 kDa band in Western blotting that often appears as a large smear.

Immunogen: Bovine glomeruli heparan sulphate proteoglycan

Species cross reaction: Reacts with Human and Dog

Does not react with Mouse, Amphibia or Rat

Formulation

Product Type: Monoclonal Antibody

Product Form: Tissue Culture Supernatant - liquid

Preservatives & Stabilizers: DMEM media base, 3% bovine serum albumin.

Storage

Store at -20°C only.

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 dispatch.



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoprecipitation			•	
Immunohistology – Frozen			•	
Imunohistology – Paraffin (1)	•			1/25
Western Blotting *	•			
Immunofluorescence			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
(1) Antigen retrieval with trypsin is recommended.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

*Western Blotting: DS- MB-01448 should not be placed in milk block as absorption can occur. Samples must be digested with chondroitinase prior to running on SDS gels as undigested HSPG is too large for most gels: Treatment is at a concentration of chondroitinase of 10 U/ml in TRIS-HCl, pH 8.0. Prepare tissue or cell extract in 20-50 mM TRIS, pH 7.6-8.0 with 0.15 M NaCl in the presence of protein inhibitors. Add 1 μ l of enzyme to 30 μ l of extract and incubate for 30 minutes at 30°C then proceed as normal.