Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody

Rat Monoclonal Antibody [Clone SPM255]

Catalog No	Format	Size
3339-RTM1X-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3339-RTM1X-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3339-RTM1X-P1ABX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

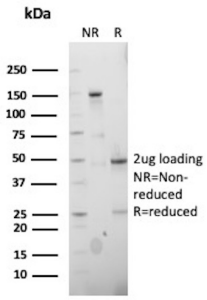
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

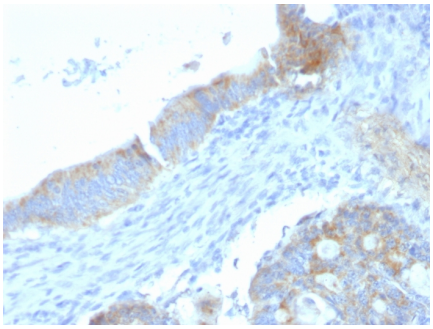
Clone	SPM255
Gene Name	HSPG2
Immunogen	Murine EHS laminin preparation
Host	Rat
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	>400kDa
Cellular Localization	Basement membrane, Extracellular matrix, Extracellular space, Secreted
Species Reactivity	Cow, Fish, Human, Monkey, Mouse, Pig
Positive Control	Breast Carcinomas, squamous cell carcinomas.

**Optimal dilution for a specific application should be determined.*

Product Images for Heparan Sulfate Proteoglycan (Large) / Perlecan Antibody



SDS-PAGE Analysis of Purified Heparan Sulphate Proteoglycan Mouse Monoclonal Antibody (SPM255). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Heparan Sulfate Monoclonal Antibody (SPM255).

Specificity & Comments

This MAb specifically precipitates heterogeneous material of high MW, identified as perlecan, a major heparan-sulfate proteoglycan (HSPG) within all basement membranes and cell surfaces. It does not cross-react with laminin, fibronectin, or dermatran sulfate proteoglycan. Because of perlecan's strategic location and ability to store and protect growth factors, it has been strongly implicated in the control of tumor cell growth and metastatic behavior. Perlecan possesses angiogenic and growth-promoting attributes primarily by acting as a co-receptor for basic fibroblast growth factor (FGF-2). Suppression of perlecan causes substantial inhibition of neoplastic growth and neovascularization. Thus, perlecan is a potent inducer of neoplasm growth and angiogenesis in vivo and therapeutic interventions targeting this key modulator of tumor progression may improve neoplastic treatment.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Endothelial Cell Marker, Infectious Disease, Mesenchymal Stem Cell Differentiation, Nuclear Marker

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.