

Rat Heparan Sulfate Proteoglycan (Large) / Perlecan Monoclonal Antibody | anti-HSPG2 antibody

Heparan Sulfate Proteoglycan (Large) / Perlecan Rat Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62777	Rat	Human, Monkey, Cow, Pig, Mouse, Fish	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Heparan Sulfate Proteoglycan (Large) / Perlecan; Monoclonal Antibody; Heparan Sulfate Proteoglycan (Large) / Perlecan Rat Monoclonal Antibody; Heparan sulfate proteoglycan of basement membrane; HSPG; Hspg2; LG3 peptide; Perlecan; PLC; SJS1; anti-HSPG2 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human, Monkey, Cow, Pig, Mouse, Fish
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	SPM255
Specificity	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 dermatan 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.
Form/Format	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.
Sequence Length	4392
Applicable Applications for anti-HSPG2 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Basement Membrane
Immunogen	Murine EHS laminin preparation
Hu-Chromosome Location	1p36.1-p34
Positive Control	Breast carcinomas, squamous cell carcinomas.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



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

ADDITIONAL INFORMATION

References	Folkvord et. al., J Histochem Cytochem, 1989; 37:105-113. Couchman et. al., Matrix, 1989; 9:311-321. Horiguchi et. al., J Histochem Cytochem, 1989; 37:961-970. Ljubimov et. al., Int J Cancer, 1992; 50:562-566. Guelstein et. al., Int J Cancer, 1993; 53:269-277. Ljubimov et. al., Lab Invest, 1995; 72:461-473.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	629266065
NCBI GeneID	3339
NCBI Accession #	NP_001278789.1
NCBI GenBank Nucleotide #	NM_001291860.1
UniProt Accession #	P98160; Q16287; Q5SZI3; Q9H3V5
Molecular Weight	>400kDa
NCBI Official Full Name	basement membrane-specific heparan sulfate proteoglycan core protein isoform a
NCBI Official Synonym Full Names	heparan sulfate proteoglycan 2
NCBI Official Symbol	HSPG2
NCBI Official Synonym Symbols	PLC; SJA; SJS; HSPG; SJS1; PRCAN
NCBI Protein Information	basement membrane-specific heparan sulfate proteoglycan core protein
UniProt Protein Name	Basement membrane-specific heparan sulfate proteoglycan core protein
UniProt Gene Name	HSPG2
UniProt Synonym Gene Names	HSPG; PLC
UniProt Entry Name	PGBM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/heparan-sulfate-proteoglycan-large-perlecan-antibody-clone-spm255-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/62777>