Heparan Sulfate Proteoglycan / Perlecan Ab-1 (Clone A7L6)
Rat Monoclonal Antibody
Cat. #RT-794-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200μg/ml) (Purified Ab with BSA and Azide)
Cat. #RT-794-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #RT-794-B0, -B1, or -B (0.1ml or 0.5ml or 1.0ml at 200μg/ml) (Biotin-labeled Ab with BSA and Azide)

Description: Perlecan is a major heparan-sulfate proteoglycan (HSPG) found within all basement membranes and cell surfaces. Because of its strategic location and ability to store and protect growth factors, perlecan 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 coreceptor 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.

Comments: Ab-1 does not cross-react with laminin, fibronectin, or dermatan sulfate proteoglycan.

Mol. Wt. of Antigen: High

Epitope: Not determined

Species Reactivity: Human, Cow, Pig, Mouse. Others-not known.

Clone Designation: A7L6

Ig Isotype / Light Chain: IgG2a / κ

Immunogen: Murine EHS laminin preparation.

Applications and Suggested Dilutions:
- Immunofluorescence
- Western Blotting (Not verified)
- Immunohistology (Frozen and Acid-alcohol-fixed, paraffin-embedded)
  
  (Use Ab at 1-2μg/ml for 30 min at RT)
  
  * Staining of acid-alcohol fixed tissues requires antigen unmasking with 15,000U/ml of bovine testicular hyaluronidase (Sigma) in PBS, pH 7.4 for 30 min at 37°C

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Tonsil

Cellular Localization: Basement membrane.

Supplied As:

200μg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

Storage and Stability:
Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

Limitations and Warranty:
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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