

AM01144PU-N Monoclonal Antibody to Heparin / Heparan Sulfate - Purified

Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Heparan sulfate is a sulfated polysaccharide that is found on the surface of most cells as part of proteoglycans. Heparan sulfate is also present in the extracellular matrix. The polysaccharide mediates the interactions between a number of different proteins. 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).
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	T320.11
Format:	State: Liquid purified IgG fraction Purification: Affinity Chromatography on Protein A Buffer System: PBS Preservatives: 0.09% Sodium Azide
Applications:	ELISA (1-10 µg/ml). Immunoblotting (1/500-1/1000). Radioimmunoassays (1-10 µg/ml). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody clone T320.11 recognizes the chemically related αβ-linked glycosaminoglycans Heparin and Heparan sulfate. Species: Human, Mammals. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Shibata S, Harpel P, Bona C, Fillit H. Monoclonal antibodies to heparan sulfate inhibit the formation of thrombin-antithrombin III complexes. Clin Immunol Immunopathol. 1993 Jun;67(3 Pt 1):264-72. PubMed PMID: 8500274. 2. Coles CH, Shen Y, Tenney AP, Siebold C, Sutton GC, Lu W, et al. Proteoglycan-specific molecular switch for RPTPσ clustering and neuronal extension. Science. 2011 Apr 22;332(6028):484-8. doi: 10.1126/science.1200840. Epub 2011 Mar 31. PubMed PMID: 21454754. 3. Gallagher JT, Walker A. 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. 1985 Sep 15;230(3):665-74. PubMed PMID: 2933029.