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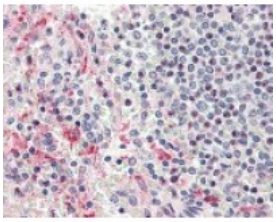
Heparanase Antibody

CATALOG NUMBER: 49-929



Immunohistochemistry staining of Heparanase in spleen tissue using Heparanase Antibody.

Specifications

SPECIES REACTIVITY:	Human, Mouse
TESTED APPLICATIONS:	IHC, WB
APPLICATIONS:	Heparanase antibody can be used in ELISA, Western Blot starting at 1:500 - 1:1000, immunohistochemistry starting at 5 ug/mL, and immunofluorescence starting at 10 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	Recognizes the 65kD precursor as well as the 50kD and 8kD subunits of human or mouse Heparanase.
IMMUNOGEN:	Heparanase antibody was raised against 50kD - 8kD Heparanase heterodimer (Human).
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	Protein G Column
PHYSICAL STATE:	Liquid
BUFFER:	PBS, pH 7.2, 0.01% Thimerosal
STORAGE CONDITIONS:	Store Heparanase antibody at 4 ˚C or -20 ˚C. As with all antibodies avoid freeze/thaw cycles.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	HPSE, Endo-glucoronidase, Heparanase-1, Heparanase, HPA, HSE1, HEP, HPA1, HPSE1, HPR1
ACCESSION NO.:	Q9Y251
PROTEIN GI NO.:	296434532
OFFICIAL SYMBOL:	HPSE
GENE ID:	10855

Background

BACKGROUND:	Heparanase is an endo-beta-D-glucuronidase, which degrades heparan sulfate side chains of heparan sulfate proteoglycans (HSPGs) in the extracellular matrix. Heparanase plays an important role in ECM degradation, facilitating the migration and extravasation of tumor cells and inflammatory leukocytes. Upon degradation, heparanase releases growth factors and cytokines that stimulate cell proliferation and chemotaxis. Heparanase is a heterodimer comprised of a 50k D subunit harboring the active site and a 8kD subunit. It is produced as a latent 65 kD precursor and proteolytically processed to its active form. Heparanase is highly expressed in myeloid leukocytes (i.e. neutrophils) in platelets and in human placenta. Human heparanase was found to be upregulated in various types of primary tumors, correlating in some cases with increased tumor invasiveness and vascularity and with poor prospective survival. Suitable for use in Western Blot and Immunohistochemistry. Other applications have not been tested. Reacts with the 65 kD precursor as well as the 50 kD and 8 kD subunits of human or mouse Heparanase.

FOR RESEARCH USE ONLY

December 13, 2016