Affinity Purified Anti-human Heparanase 1 (HPA1) Clone HP3/17 mAb

Catalog No.	INS-26-1-0000-10	**Quantity:**	50 µg
	INS-26-1-0000-11		100 µg
	INS-26-1-0000-12		150 µg

Description: Heparanase is an endo-ß-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 extravasations 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 50 kDa subunit harboring the active site and an 8 kDa subunit. It is produced as a latent 65 kDa 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.

Concentration: 100 µg/25 µl

Purity: > 98% on SDS-PAGE when loaded 50 µg/lane.

Specificity: HP3/17 reacts with the 50 kDa subunit and with the 65 kDa precursor of human or mouse Heparanase by Western blotting and immunohistochemistry.

Immunogen: Mab HP3/17 is a Protein G affinity purified monoclonal antibody raised against a polypeptide from the 50 kDa subunit of Heparanase.

Isotype: Mouse IgG_{2BK}

Clone: HP3/17

Formulation: 0.22 micron filtered solution of 20 mM Sodium Phosphate +150 mM NaCl, pH 7.2, containing 0.01% Thimerosal. **Precaution:** Thiomersal is a poisonous and hazardous substance which should be handled by trained staff only.

Applications: Western blot: working dilution of 1:4,000.
Immunohistochemistry: working dilution of 1:40. The optimal concentration should be determined by the user for each specific application.

Storage & Stability: Store at 4°C. Stable for six months from the date of shipment. For extended storage, freeze in working aliquots at -20°C. **Avoid repeated freeze-thaw cycles**.

Patents: Anti-heparanase antibodies and their uses, including HP3/17 and its uses, are protected by US. Patents No. 6,177,545; 6,531,129, additional US patent applications and patents and patent applications worldwide.

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