Rabbit anti-Human Heparanase 1 (HPA1)  
Polyclonal Antibody

**CLANT155**  
**CLANT155-2**  
Lot:

**Introduction:** Heparanase is an endo β-D-glucuronidase, which degrades heparin 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 (1,2,3). Upon degradation, heparanase releases growth factors and cytokines that stimulate cell proliferation and chemotaxis (4,5). Heparanase is a heterodimer comprised of a 50 kDa subunit harboring the active site and a 8 kDa subunit. It is produced as a latent 65 kDa precursor and proteolytically processed to its active form (1,6). 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 (7,8).

**Source:** Polyclonal rabbit anti-human HPA1 is a Protein G affinity purified polyclonal antibody raised against the 50 kDa-8 kDa Heparanase heterodimer.

**Product:** 0.24 mg (CLANT155) or 0.48 mg (CLANT155-2) of antibody in 100 or 200 µl respectively of 20 mM sodium phosphate; 150 mM NaCl, pH 7.2, containing 0.001% Thimerosal.

**Applications:**  
Western blot  
Immunohistochemistry

**Specificity:** Western blot analysis: The antibody reacts with the 65 kDa precursor as well as the 50 kDa and 8 kDa subunits of human or mouse Heparanase.

**Immunohistochemistry:**  
The antibody interacts with Heparanase in paraffin sections and blood smears.  
Recommended dilution range for Western blot analysis: 1:1000.  
Recommended dilution range for immunohistochemistry: 1:100.

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Storage:
Store at 4°C. For extended storage, freeze in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

Patents: Polyclonal and monoclonal Anti-heparanase antibodies and their uses are protected by US. Patents No. 6,177,545; 6,531,129, additional US patent applications and patents and patent applications worldwide.

References:

Laboratory Reagent For Research Use Only

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