

Recombinant Human Heparanase 1 (HPA1) – Western Blot Control

Catalog No. *INS-26-5-0000-10*

BACKGROUND

Heparanase is an endo β -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 (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).

PRODUCT DESCRIPTION

Recombinant Heparanase protein HPA1 is produced in CHO cells. The protein is purified by several orthogonal chromatography steps.

QUANTITY AND FORMULATION

Concentration: 1 μ g /ml

Content: 100 ng

Buffer: LDS-PAGE buffer

[140 mM Tris buffer pH 8.5, 10% Glycerol, 2% LDS, 0.015% EDTA, 1.88% (v/v) of 1% Serva Blue G250 and 0.625% (v/v) of 1% Phenol red]

APPLICATION

Positive control for western blot analysis.

USE

Use 20 μ l of recombinant human heparanase 1 (HPA1) per lane, as a control for using monoclonal anti HPA 1 clone HP3/17 antibodies (Cat. No.: Ins-AB-04001) or polyclonal rabbit anti HPA1 antibody (Cat. No.: Ins-AB-04002).

STORAGE

Store at -20°C , avoid repeated freeze-thaw cycles.

RESEARCH USE

For *in vitro* research use only. Not for use in diagnostic procedures.

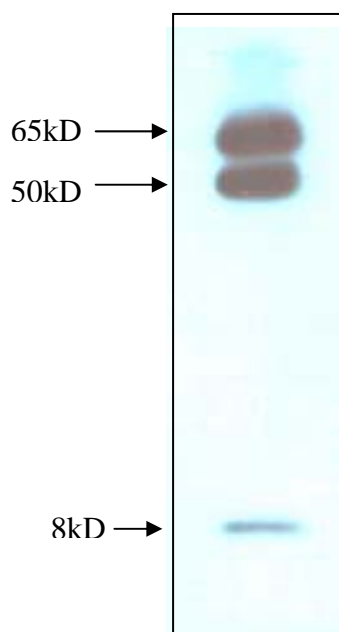
PATENTS

Recombinant heparanase is protected under US. Patents No.5,968,822; 6,348,344; 6,426,209, additional US patent applications and patents and patent applications worldwide.

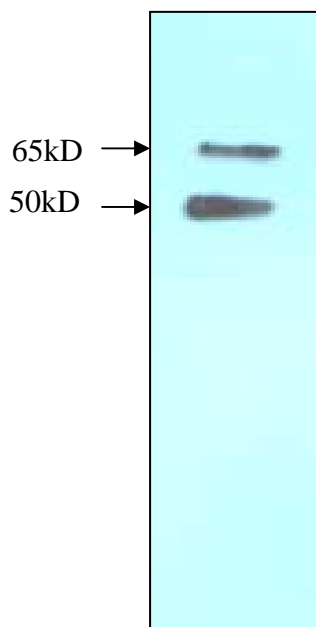
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PERFORMANCE



Western blot analysis with
Polyclonal Rabbit anti HPA1 antibodies Cat. No.: Ins-
AB-04002
Lot No.: I-01HDG-4
20ng HPA1/lane



Western blot analysis with
Monoclonal anti HPA 1
clone HP3/17 antibodies
Cat. No.: Ins-AB-04001
Lot No.: I-01HMB7
20 ng HPA1/lane