

Heparanase 1 (HPA1), Polyclonal

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ABP0014

Product Overview

Name	Heparanase 1 (HPA1), Polyclonal
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References for protein:

1. I. Vlodavsky, Y. Friedmann, M. Elkin, H. Aingorn, R. Atzmon, R. Ishai-Michaeli, M. Bitan, O. Pappo, T. Peretz, I. Michal, L. Spector, I. Pecker. 1999. Mammalian heparanase: gene cloning, expression and function in tumor progression and metastasis. *Nat. Med.* 5: 793-802. 2. I. Vlodavsky, Y. Friedmann. 2001. Molecular properties and involvement of heparanase in cancer metastasis and angiogenesis. *J. Clin. Invest.* 108: 341-347. 3. C.R. Parish, C. Freeman, M.D. Hulett. 2001. Heparanase: a key enzyme involved in cell invasion. *Biochem. Biophys. Acta* 1471: M99-M108. 4. I. Vlodavsky, G. Korner, R. Ishai-Michaeli, P. Bashkin, R. Bar-Shavit, and Z. Fuks. 1990. Extracellular matrix-resident growth factors and enzyme: Possible involvement in tumor metastasis and angiogenesis. *Cancer Metastasis Rev.* 9: 203-226. 5. P. Bashkin, S. Doctrow, M. Klagsbrun, C.M. Svahn, J. Folkman, and I. Vlodavsky. 1989. Basic fibroblast growth factor binds to subendothelial extracellular matrix and is released by heparitinase and heparin-like molecules. *Biochemistry* 28: 1737-1743. 6. M.B. Fairbanks, A.M. Mildner, J.W. Leone, G.S. Cavey, W.R. Mathews, R.F. Drong, J.L. Slightom, M.J. Bienkowski, C.W. Smith, C.A. Bannow, R.L. Henrikson. 1999. Processing of the human heparanase precursor and evidence that the active enzyme is a heterodimer. *J. Biol. Chem.* 274: 29587-29590. 7. A. Koliopanos, H. Friess, J. Klee, X. Shi, Q. Liao, I. Pecker, I. Vlodavsky, A. Zimmermann, M.W. Buchler. 2001. Heparanase expression in primary and metastatic pancreatic cancer. *Cancer Res.* 61: 4655-4659. 8. K. Gohji, H. Hirano, M. Okamoto, S. Kitazawa, M. Toyoshima, J. Dong, Y. Katsuoka, M. Nakajima. 2001. Expression of three extracellular matrix degradative enzymes in bladder cancer. *Int. J. Cancer* 95: 295-301.