

Heparanase 1 Clone HP3/17

Heparanase 1 (HPA1), Monoclonal Anti-Human Antibody

ABM0319

Product Overview

Name	Heparanase 1 Clone HP3/17
Description	Heparanase 1 (HPA1), Monoclonal Anti-Human Antibody

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. Friedman. 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, 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, I. Vlodavsky. 1989. Basic fibroblast growth factor binds to subendothelial extracellular matrix and is released by heparitinase and hprn-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. 1992. 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.