

anti-Human, Rat Heparanase 1 Polyclonal Antibody | anti-HPSE antibody

Anti-Heparanase 1 Antibody

CATALOG #	REACTIVITY	APPLICATIONS
AAA46548	Human, Rat	Western Blot

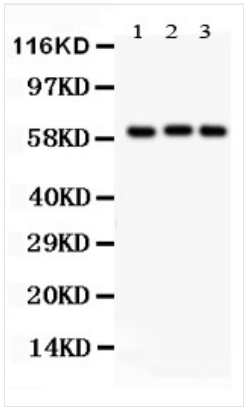
PRODUCT SYNONYMS

Heparanase 1; Polyclonal Antibody; Anti-Heparanase 1 Antibody; Heparanase; Endo glucuronidase; Endo-glucuronidase; HEP; Heparanase 50 kDa subunit; Heparanase-1; Heparanase1; Hpa 1; HPA; Hpa1; HPR 1; HPR1; HPSE 1; HPSE; HPSE_HUMAN; HPSE1; HSE 1; HSE1 antibody; heparanase; anti-HPSE antibody

PRODUCT SPECIFICATIONS

Reactivity	Human, Rat
Clonality	Polyclonal
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	543
Applicable Applications for anti-HPSE antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Heparanase 1 (301-331aa NGRTATKEDFLNPDVLDIFISSVQKVFQVVE), different from the related mouse and rat sequences by eight amino acids.
Ig Type	Rabbit IgG
Reconstitution	0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquoted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)
Anti- Heparanase 1 Picoband antibody, AAA46548, Western blottingAll lanes: Anti Heparanase 1 (AAA46548) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Human Placenta Tissue Lysate at 50ugLane 3: A549 Whole Cell Lysate at 40ugPredicted bind size: 61KDObserved bind size: 61KD

ADDITIONAL INFORMATION

Related Product Information for anti-HPSE antibody	Description: Rabbit IgG polyclonal antibody for Heparanase(HPSE) detection. Tested with WB in Human;Rat. Background: Heparanase, also known as HPSE, is an enzyme that acts both at the cell-surface and within the extracellular matrix to degrade polymeric heparan sulfate molecules into shorter chain length oligosaccharides. Heparanase is an endo-beta-D-glucuronidase capable of cleaving heparan sulfate and has been implicated in inflammation and tumor angiogenesis and metastasis. The successful penetration of the endothelial cell layer that lines the interior surface of blood vessels is an important process in the formation of blood borne tumour metastases. Heparan sulfate proteoglycans are major constituents of this layer and it has been shown that increased metastatic potential corresponds with increased heparanase activity for a number of cell lines.
References	1. Hulett MD, Freeman C, Hamdorf BJ, Baker RT, Harris MJ, Parish CR (July 1999), "Cloning of mammalian heparanase, an important enzyme in tumor invasion and metastasis", Nature medicine 5 (7): 803-9. 2. Nakajima M, Irimura T, Nicolson GL. (1988), "Heparanases and tumor metastasis", J. Cell. Biochem. 36 (2): 157-167. 3. Toyoshima, M.; Nakajima, M. : Human heparanase: purification, characterization, cloning, and expression. J. Biol. Chem. 274: 24153-24160, 1999. 4. Vlodavsky I, Friedmann Y, Elkin M, Aingorn H, Atzmon R, Ishai-Michaeli R, Bitan M, Pappo O, Peretz T, Michal I, Spector L, Pecker I (July 1999), "Mammalian heparanase: gene cloning, expression and function in tumor progression and metastasis", Nature medicine 5 (7): 793-802. 5. Vlodavsky I, Goldshmidt O, Zcharia E, et al. (2003), "Mammalian heparanase: involvement in cancer metastasis, angiogenesis and normal development.", Semin. Cancer Biol. 12 (2): 121-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148746204
NCBI GeneID	10855
NCBI Accession #	NP_001092010.1
NCBI GenBank Nucleotide #	NM_001098540.2
UniProt Accession #	Q9Y251; Q53GE5; Q9UL39; A9JIG7; C7F713; C7F714; E9PCA9; E9PGR1
NCBI Official Full Name	heparanase isoform 1 preproprotein
NCBI Official Synonym Full Names	heparanase
NCBI Official Symbol	HPSE
NCBI Official Synonym Symbols	HPA; HPA1; HPR1; HSE1; HPSE1
NCBI Protein Information	heparanase

UniProt Protein Name	Heparanase
UniProt Gene Name	HPSE
UniProt Synonym Gene Names	HEP; HPA; HPA1; HPR1; HPSE1; HSE1; Hpa1
UniProt Entry Name	HPSE_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/heparanase-1-antibody-western-blot-elisa/46548>