

## Anti-Heparanase 1/Hpse Antibody Picoband™

Catalog Number: A01313

### About Hpse

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.

### Overview

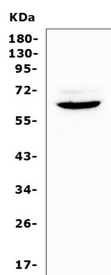
Product Name	Anti-Heparanase 1/Hpse Antibody Picoband™
Reactive Species	Mouse
Description	Boster Bio Anti-Heparanase 1/Hpse Antibody Picoband™ catalog # A01313. Tested in WB applications. This antibody reacts with Mouse.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q6YGG1

### Technical Details

Immunogen	E.coli-derived mouse Heparanase 1 recombinant protein (Position: K206-K457). Mouse Heparanase 1 shares 80.2% and 96.4% amino acid (aa) sequence identity with human and rat Heparanase 1, respectively.
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Mouse</p>

## Anti-Heparanase 1/Hpse Antibody Picoband™ (A01313) Images



**Figure 1. Western blot analysis of Heparanase 1 using anti-Heparanase 1 antibody (A01313).**

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: mouse spleen tissue lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Heparanase 1 antigen affinity purified polyclonal antibody (Catalog # A01313) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Heparanase 1 at approximately 65KD. The expected band size for Heparanase 1 is at 61KD.

## 2 Publications Citing This Product

1. PubMed ID: 28810553, Qin Q, Xu G, Qi W, Guo M, Wang Z, Xu W, Qiao Z, Gu Y, Niu J. Exp Ther Med. 2017 Aug;14(2):1017-1022. doi: 10.3892/etm.2017.4609. Epub 2017 Jun 15. Evaluation of the C-domain of heparanase during AGE-induced macrophage inflammatory response
2. PubMed ID: 24235832, Inhibition of choriocarcinoma by Fe3O4-dextran-anti-?-human chorionic gonadotropin nanoparticles containing antisense oligodeoxynucleotide of heparanase

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