

## Basic Information

Product Name	Anti-HPSE Antibody
Gene Name	HPSE
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	mouse
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.
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.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	65 kDa
Dilution Ratios	Western blot (WB):1:500-2000

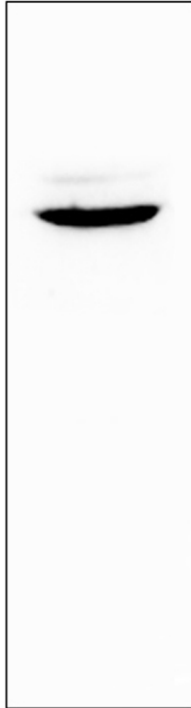
## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

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.

## Selected Validation Data

**KDa****180-****130-****95-****72-****55-****43-****34-****26-****17-**

Western blot analysis of HPSE using anti-HPSE antibody (A01313). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: mouse spleen tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HPSE antigen affinity purified polyclonal antibody (A01313) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HPSE at approximately 65 kDa. The expected band size for HPSE is at 60 kDa.