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Heparanase 2/HPSE2 Rabbit pAb

Catalog # AP99210

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8WWQ2
Other Accession	Q8WWQ2
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66596
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Heparanase 2
Epitope Specificity	101-200/592
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the glycosyl hydrolase 79 family.
SUBUNIT	Interacts with HPSE. Interacts with SDC1 (via glycan chains).
DISEASE	Urofacial syndrome 1 (UFS1) [MIM:236730]: A rare autosomal recessive disorder characterized by facial grimacing when attempting to smile and failure of the urinary bladder to void completely despite a lack of anatomical bladder outflow obstruction or overt neurological damage. Affected individuals often have reflux of infected urine from the bladder to the upper renal tract, with a risk of kidney damage and renal failure. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a heparanase enzyme. The encoded protein is a endoglycosidase that degrades heparin sulfate proteoglycans located on the extracellular matrix and cell surface. This protein may be involved in biological processes involving remodeling of the extracellular matrix including angiogenesis and tumor progression. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009].

Additional Information

Gene ID	60495
Other Names	HPA2; HPR2; UFS; UFS1; Gm968; HPSE2_HUMAN; HPSE2; HPSE2_MOUSE; HPSE_RAT; Hpse; Endo-glucoronidase; 3.2.1.166; Hep; heparanase 2 (inactive); urofacial syndrome; heparanase 2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	HPSE2
Synonyms	HPA2
Function	Binds heparin and heparan sulfate with high affinity, but lacks heparanase activity. Inhibits HPSE, possibly by competing for its substrates (in vitro).
Cellular Location	Secreted, extracellular space, extracellular matrix
Tissue Location	Widely expressed, with the highest expression in brain, mammary gland, prostate, small intestine, testis and uterus. In the central nervous system, expressed in the spinal cord, caudate nucleus, thalamus, substantia nigra, medulla oblongata, putamen and pons. In the urinary bladder, expressed in longitudinal and circular layers of detrusor muscle. Found both in normal and cancer tissues

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