

Recombinant Human HYAL1

Cat. No. HYAL1-29415TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HYAL1 with proprietary tag; Predicted MWt 53.9 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	253 amino acids
Description	This gene encodes a lysosomal hyaluronidase. Hyaluronidases intracellularly degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan is thought to be involved in cell proliferation, migration and differentiation. This enzyme is active at an acidic pH and is the major hyaluronidase in plasma. Mutations in this gene are associated with mucopolysaccharidosis type IX, or hyaluronidase deficiency. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	53.900kDa inclusive of tags
Tissue specificity	Highly expressed in the liver, kidney and heart. Weakly expressed in lung, placenta and skeletal muscle. No expression detected in adult brain. Isoform 1 is expressed only in bladder and prostate cancer cells, G2/G3 bladder tumor tissues and lymph node sp
Biological activity	useful for Antibody Production and Protein Array

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAGTLQLGRALRPRGLWGFYGFDPDCYNYDFLSPNYTGQCPSGIRAQNDQLGWLW GQSRALYPSIYMPAVLEGTGKSQMYVQHRVAEAFRVAVAAGDPNLPVLPYVQIFYD TTNHFLPLDELEHSLGESAAQGAAGVVLWVSWENTRTKESCQAIKEYMDTTLGPFIL NVTSGALLCSQALCSGHGRCVVRTSHPKALLLNPAFSIQLTPGGGPLSLRGALSL EDQAQMAVEFKCRCYPGWQAPWCERKSMW
Sequence Similarities	Belongs to the glycosyl hydrolase 56 family.Contains 1 EGF-like domain.

GENE INFORMATION

Gene Name	HYAL1 hyaluronoglucosaminidase 1 [Homo sapiens]
Official Symbol	HYAL1
Synonyms	HYAL1; hyaluronoglucosaminidase 1; hyaluronidase-1; FUS2; HYAL 1; LUCA1; NAT6;
Gene ID	3373
mRNA Refseq	NM_007312
Protein Refseq	NP_009296

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MIM	607071
Uniprot ID	Q12794
Chromosome Location	3p21.3-p21.2
Pathway	Chondroitin sulfate degradation, organism-specific biosystem; Chondroitin sulfate degradation, conserved biosystem; Dermatan sulfate degradation, organism-specific biosystem; Dermatan sulfate degradation, conserved biosystem; Glycosaminoglycan degradation, organism-specific biosystem;
Function	hyaluronoglucosaminidase activity; hydrolase activity, acting on glycosyl bonds;

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