

Active Recombinant Human HYAL2 Protein (Met21-Gly447), C-6×His-tagged

Cat. No. HYAL2-41H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Hyaluronidase 2/HYAL2 protein (Met21-Gly447) with a C-terminal 6-His tag was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	Met21-Gly447
Description	This gene encodes a weak acid-active hyaluronidase. The encoded protein is similar in structure to other more active hyaluronidases. Hyaluronidases degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan and fragments of hyaluronan are thought to be involved in cell proliferation, migration and differentiation. Although it was previously thought to be a lysosomal hyaluronidase that is active at a pH below 4, the encoded protein is likely a GPI-anchored cell surface protein. This hyaluronidase serves as a receptor for the oncogenic virus Jaagsiekte sheep retrovirus. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. This gene encodes two alternatively spliced transcript variants which differ only in the 5' UTR.
Bio-activity	Measured by its ability to digest Cy5-Labeled Hyaluronan (Low MW) to dp1-dp4. The majority of Cy5-Labeled Hyaluronan (Low MW) (2 pmol) is digested by 0.25 µg of Recombinant Human HYAL-2, as measured under the described conditions.

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Molecular Mass	Predicted Molecular Mass: 50 kDa SDS-PAGE: 53-58 kDa, under reducing conditions.
N-terminal Sequence Analysis	Met21
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>95% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris and NaCl.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	HYAL2 hyaluronoglucosaminidase 2 [Homo sapiens (human)]
Official Symbol	HYAL2
Synonyms	HYAL2; hyaluronoglucosaminidase 2; hyaluronidase-2; hyaluronidase 2; LuCa 2; LUCA2; lysosomal hyaluronidase; PH 20 homolog; hyal-2; PH20 homolog; PH-20 homolog; lung carcinoma protein 2; hyaluronoglucosaminidase-2
Gene ID	8692

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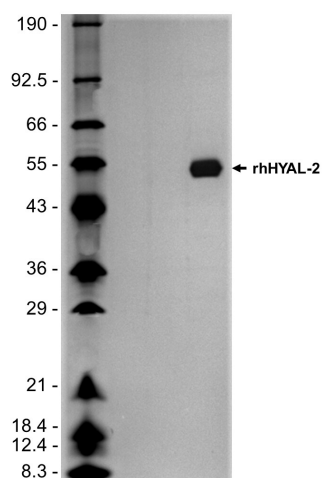
mRNA Refseq [NM_003773](#)

Protein Refseq [NP_003764](#)

MIM [603551](#)

UniProt ID [Q12891](#)

SDS-PAGE

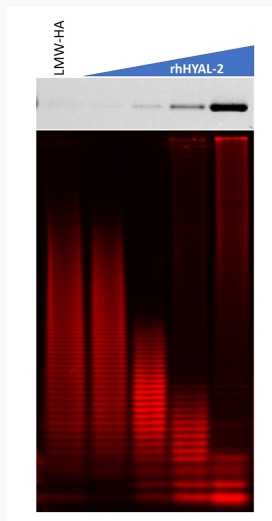


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Gel Supershift Assay



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