HYAL2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	HYAL2, Blocking Peptide
Full Product Name	HYAL2 Blocking Peptide
Product Gene Name	HYAL2 blocking peptide
Product Synonym Names	Hyal 2; Hyal-2; Hyal2; HYAL2_HUMAN; Hyaluronidase 2; Hyaluronidase 2 Precursor; Hyaluronidase-2; Hyaluronoglucosaminidase 2; Hyaluronoglucosaminidase-2; LUCA 2; LUCA-2; LUCA2; Lung carcinoma protein 2; lysosomal hyaluronidase; PH 20 homolog; PH-20 homolog; PH20 homolog
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	HYAL2 peptide (MBS9621783) is used for blocking the activity of HYAL2 antibody (MBS9611830)
Molecular Weight	53,860 Da
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for HYAL2 blocking peptide	Blocking/Control
Related Product Information for HYAL2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of HYAL2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HYAL2 purchase	MBS9621783 is a blocking peptide targeting HYAL2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HYAL2. It may not necessarily be applicable to this product.

NCBI GI #	34304377
NCBI GeneID	8692
NCBI Accession #	NP_149348.2
UniProt Primary Accession #	Q12891
UniProt Secondary Accession #	O15177; Q9BW29; B3KRZ2
UniProt Related Accession #	Q12891

GenBank Nucleotide #	NP_149348.2
NCBI Official Full Name	hyaluronidase-2
NCBI Official Synonym Full Names	hyaluronidase 2
NCBI Official Symbol	HYAL2
NCBI Official Synonym Symbols	LUCA2
UniProt Protein Name	Hyaluronidase-2
UniProt Synonym Protein Names	Hyaluronoglucosaminidase-2; Lung carcinoma protein 2; LuCa-2
UniProt Gene Name	HYAL2
UniProt Synonym Gene Names	LUCA2; Hyal-2; LuCa-2
NCBI Protein Information	hyaluronidase-2
NCBI Summary for HYAL2	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.[provided by RefSeq, Mar 2010]
UniProt Comments for HYAL2	Hydrolyzes high molecular weight hyaluronic acid to produce an intermediate-sized product which is further hydrolyzed by sperm hyaluronidase to give small oligosaccharides. Displays very low levels of activity. Associates with and negatively regulates MST1R.
Research Articles on HYAL2	**1.** an important role for HYAL2 in CD44 alternative splicing.
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