HYAL2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HYAL2, Polyclonal Antibody
Full Product Name	HYAL2, ID (HYAL2, LUCA2, Hyaluronidase-2, Hyaluronoglucosaminidase-2, Lung carcinoma protein 2) (MaxLight 490)
Product Gene Name	anti-HYAL2 antibody
Product Synonym Names	HYAL2; LUCA2; Hyaluronidase-2; Hyaluronoglucosaminidase-2; Lung carcinoma protein 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	53,860 Da
3D Structure	ModBase 3D Structure for Q12891
Immunogen	HYAL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 127-157 amino acids from the Central region of human HYAL2.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-HYAL2 antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-HYAL2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-HYAL2 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-HYAL2 antibody	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.

Product References and Citations for anti-HYAL2 antibody	Monzon, M.E., et al. J. Biol. Chem. 285(34):26126-26134(2010). Tzuman, Y.C., et al. Neoplasia 12(1):51-60(2010). de la Motte, C., et al. Am. J. Pathol. 174(6):2254-2264(2009). Nykopp, T.K., et al. BMC Cancer 9, 143 (2009): Miller, A.D., et al. Osteoarthr. Cartil. 14(12):1315-1317(2006).
Other Notes	Small volumes of anti-HYAL2 antibody 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	MBS6308975 is an antibody targeting HYAL2. Also known as HYAL2, ID (HYAL2, LUCA2, Hyaluronidase-2, Hyaluronoglucosaminidase-2, Lung carcinoma protein 2) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	15022801
NCBI GeneID	8692
NCBI Accession #	NP_003764.3
NCBI Related Accession #	NP_149348.2
UniProt Primary Accession #	Q12891
UniProt Secondary Accession #	O15177; Q9BW29; B3KRZ2
UniProt Related Accession #	Q12891
GenBank Nucleotide #	NM_003773.4
NCBI Official Full Name	hyaluronidase-2
NCBI Official Synonym Full Names	hyaluronoglucosaminidase 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; hyal-2; PH20 homolog; PH-20 homolog; hyaluronidase 2; lysosomal hyaluronidase; lung carcinoma protein 2; hyaluronoglucosaminidase-2
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.** Inverse expression of hyaluronidase 2 and hyaluronan synthases 1-3 is associated with reduced hyaluronan content in malignant cutaneous melanoma.
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