HAS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HAS2, Polyclonal Antibody
Full Product Name	HAS2, ID (HAS2, Hyaluronan synthase 2, Hyaluronate synthase 2, Hyaluronic acid synthase 2) (MaxLight 550)
Product Gene Name	anti-HAS2 antibody
Product Synonym Names	HAS2; Hyaluronan synthase 2; Hyaluronate synthase 2; Hyaluronic acid synthase 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 MaxLight550.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	63,566 Da
3D Structure	ModBase 3D Structure for Q92819
Immunogen	HAS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 145-174 amino acids from the Central region of human HAS2.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-HAS2 antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-HAS2 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-HAS2 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-HAS2 antibody	Hyaluronan or hyaluronic acid (HA) is a high molecular weight unbranched polysaccharide synthesized by a wide variety of organisms from bacteria to mammals, and is a constituent of the extracellular matrix. It consists of alternating glucuronic acid and N-acetylglucosamine residues that are linked by beta-1-3 and beta-1-4 glycosidic bonds. HA is synthesized by membrane-bound synthase at the inner surface of the plasma membrane, and the chains are extruded through pore-like structures into the extracellular space. It serves a variety of functions, including space filling, lubrication of joints, and provision of a matrix through which cells can migrate. HA is actively produced during wound healing and tissue repair to provide a framework for ingrowth of blood vessels and fibroblasts. Changes in the serum concentration of HA are associated with inflammatory and degenerative arthropathies such as rheumatoid arthritis. In addition, the interaction of HA with the leukocyte receptor CD44 is important in tissue-specific homing by leukocytes, and overexpression of HA receptors has been correlated with tumor metastasis. HAS2 is a member of the newly identified vertebrate gene family encoding putative hyaluronan synthases, and its amino acid sequence shows significant homology to glycosaminoglycan synthetase (DG42) from Xenopus laevis, and human and murine hyaluronan synthase 1.
Product References and Citations for anti-HAS2 antibody	Simpson, M.A., et al. J. Biol. Chem. 277(12):10050-10057(2002). Spicer, A.P., et al. Biochem. Soc. Trans. 27(2):109-115(1999). Spicer, A.P., et al. Genomics 41(3):493-497(1997). Watanabe, K., et al. J. Biol. Chem. 271(38):22945-22948(1996).
Other Notes	Small volumes of anti-HAS2 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 HAS2 purchase	MBS6305456 is an antibody targeting HAS2. Also known as HAS2, ID (HAS2, Hyaluronan synthase 2, Hyaluronate synthase 2, Hyaluronic acid synthase 2) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HAS2. It may not necessarily be applicable to this product.

NCBI GI #	4885391
NCBI GeneID	3037
NCBI Accession #	NP_005319.1
UniProt Primary Accession #	Q92819
UniProt Secondary Accession #	Q32MM3
UniProt Related Accession #	Q92819
GenBank Nucleotide #	NM_005328.2
NCBI Official Full Name	hyaluronan synthase 2
NCBI Official Synonym Full Names	hyaluronan synthase 2
NCBI Official Symbol	HAS2
UniProt Protein Name	Hyaluronan synthase 2
UniProt Synonym Protein Names	Hyaluronate synthase 2; Hyaluronic acid synthase 2; HA synthase 2
Protein Family	Hyaluronan synthase
UniProt Gene Name	HAS2
UniProt Synonym Gene Names	HA synthase 2
NCBI Protein Information	hyaluronan synthase 2

UniProt Comments for HAS2	Catalyzes the addition of GlcNAc or GlcUA monosaccharides to the nascent hyaluronan polymer. Therefore, it is essential to hyaluronan synthesis a major component of most extracellular matrices that has a structural role in tissues architectures and regulates cell adhesion, migration and differentiation. This is one of the isozymes catalyzing that reaction and it is particularly responsible for the synthesis of high molecular mass hyaluronan. Required for the transition of endocardial cushion cells into mesenchymal cells, a process crucial for heart development. May also play a role in vasculogenesis. High molecular mass hyaluronan also play a role in early contact inhibition a process which stops cell growth when cells come into contact with each other or the extracellular matrix ().
Research Articles on HAS2	**1.** hyaluron synthase 2 has a role in stem cell senescence
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