Hyaluronan Synthase 2 (HAS2) ELISA Kit for Mouse

PRODUCT OVERVIEW

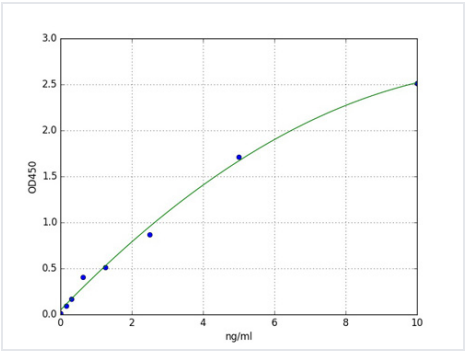
Product Name	Hyaluronan synthase 2 (Has2), ELISA Kit
Full Product Name	Mouse Hyaluronan synthase 2 ELISA Kit
Product Gene Name	Has2 elisa kit
Product Synonym Names	Has2/ (Hyaluronan synthase 2)/HA synthase 2/Hyaluronate synthase 2/Hyaluronic acid synthase 2
Species Reactivity	Mouse
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	63,566 Da
OMIM	601636
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for Has2 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. anti-Mouse Has2 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Mouse Has2 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Mouse Has2 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Mouse Has2 can be calculated.
Other Notes	Small volumes of Has2 elisa kit 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	MBS761832 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Hyaluronan synthase 2 (Has2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing Has2. The ELISA analytical biochemical technique of the MBS761832 kit is based on Has2 antibody-Has2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Has2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Has2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

Typical Data & Standard Curve

Results of a typical standard run of a Mouse Has2 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.156	0.313	0.625	1.25	2.5	5	10
Y	OD450	0.040	0.211	0.332	0.612	0.941	1.347	1.785	2.152

Typical Testing Data of Has2 elisa kit



Typical Standard Curve of Has2 elisa kit

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 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
UniProt Entry Name	HYAS2_HUMAN
NCBI Protein Information	hyaluronan synthase 2
NCBI Summary for Has2	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. [provided by RefSeq, Jul 2008]

UniProt Comments for Has2	HAS2: Plays a role in hyaluronan/hyaluronic acid (HA) synthesis. Expressed in fibroblasts. Belongs to the nodC/HAS family. Protein type: Transferase; Membrane protein, integral; Motility/polarity/chemotaxis; Membrane protein, multi-pass; EC 2.4.1.212 Chromosomal Location of Human Ortholog: 8q24.12 Cellular Component: cytoplasm; integral to plasma membrane Molecular Function: hyaluronan synthase activity Biological Process: cell adhesion; extracellular polysaccharide biosynthetic process; hyaluronan biosynthetic process; kidney development; positive regulation of cell migration; positive regulation of cell proliferation; positive regulation of keratinocyte migration; positive regulation of smooth muscle cell migration; vasculogenesis
Research Articles on Has2	**1.** Our study identified HAS2 as a novel candidate gene for susceptibility to adult asthma.
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