Connexin 40 (CX40) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Connexin 40 (CX40), ELISA Kit
Full Product Name	Human Connexin 40 ELISA Kit
Product Gene Name	CX40 elisa kit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Detection Range	0.625ng/ml-20ng/ml
Sensitivity	0.1ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C
Inter-assay Precision	Inter-assay CV (%) is less than 15%. [CV(%) = SD/mean ×100]. All CV% should be compared by concentration, not compared by OD values.
Intra-assay Precision	Intra-assay CV (%) is less than 15%.
Molecular Weight	40,413 Da
Chromosome Location	Chromosome: 3; NC_000069.6 (97032416..97053634). Location: 3 F2.1; 3 42.04 cM
3D Structure	ModBase 3D Structure for Q01231
Related Product Information for CX40 elisa kit	Background: This Quantitative Sandwich ELISA kit is for lab reagent/research use only, not for drug, household, therapeutic or test applications! This kit is intended to be used to determine the level of CX40 (hereafter termed "analyte") in undiluted original Human serum, plasma or tissue homogenates samples. For other sample types please contact tech support to determine compatibility with this assay. This kit is not suitable for assaying non-biological sources of substances.
Other Notes	Small volumes of CX40 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 CX40 purchase	MBS018902 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Connexin 40 (CX40) 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 CX40. The ELISA analytical biochemical technique of the MBS018902 kit is based on CX40 antibody-CX40 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CX40 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CX40. 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CX40. It may not necessarily be applicable to this product.

NCBI GI #	50514
NCBI GeneID	14613
NCBI Accession #	CAA43850.1
UniProt Primary Accession #	Q01231
UniProt Related Accession #	Q01231

NCBI Official Full Name	Cx40
NCBI Official Synonym Full Names	gap junction protein, alpha 5
NCBI Official Symbol	Gja5
NCBI Official Synonym Symbols	Cx40; Cnx40; Gja-5; 5730555N10Rik
UniProt Protein Name	Gap junction alpha-5 protein
UniProt Synonym Protein Names	Connexin-40
Protein Family	Gap junction alpha-5 protein
UniProt Gene Name	Gja5
UniProt Synonym Gene Names	Cxn-40; Cx40
UniProt Entry Name	CXA5_MOUSE
NCBI Protein Information	gap junction alpha-5 protein; connexin-40; gap junction membrane channel protein alpha 5
UniProt Comments for CX40	GJA5: One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. Defects in GJA5 are a cause of familial atrial standstill (FAS). Atrial standstill is an extremely rare arrhythmia, characterized by the absence of electrical and mechanical activity in the atria. Electrocardiographically, it is characterized by bradycardia, the absence of P waves, and a junctional narrow complex escape rhythm. Defects in GJA5 are the cause of familial atrial fibrillation type 11 (ATFB11). ATFB11 is a familial form of atrial fibrillation, a common sustained cardiac rhythm disturbance. Atrial fibrillation is characterized by disorganized atrial electrical activity and ineffective atrial contraction promoting blood stasis in the atria and reduces ventricular filling. It can result in palpitations, syncope, thromboembolic stroke, and congestive heart failure. Belongs to the connexin family. Alpha-type (group II) subfamily. Protein type: Motility/polarity/chemotaxis; Channel, misc.; Membrane protein, multi-pass; Membrane protein, integral Cellular Component: connexon complex; cell projection; membrane; integral to plasma membrane; integral to membrane; gap junction; plasma membrane; cell junction Molecular Function: gap junction hemi-channel activity; gap junction channel activity Biological Process: blood vessel development; gap junction assembly; negative regulation of glomerular filtration; regulation of vasodilation; positive regulation of vasodilation; protein oligomerization; positive regulation of vasoconstriction; regulation of systemic arterial blood pressure; artery morphogenesis; embryonic heart tube development; regulation of systemic arterial blood pressure by renal system process; cell communication; negative regulation of blood pressure; skeletal development; potassium ion transport; embryonic limb morphogenesis
Research Articles on CX40	**1.** genetic polymorphisms in endothelial Cx40 can contribute to the pathogenesis of arterial disease.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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