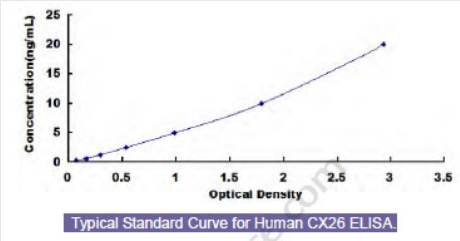
Connexin 26 (CX26) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Connexin 26 (CX26), ELISA Kit
Full Product Name	Human Connexin 26 (CX26) ELISA Kit
Product Gene Name	CX26 elisa kit
Product Synonym Names	Anti-GH
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.124ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CX26. No significant cross-reactivity or interference between CX26 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CX26 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CX26 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	26,215 Da
OMIM	M86849 mRNA
3D Structure	ModBase 3D Structure for P29033
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CX26 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CX26 in human serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CX26. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CX26. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CX26, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CX26 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CX26 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 CX26 purchase	MBS455923 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Connexin 26 (CX26) 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 CX26. The ELISA analytical biochemical technique of the MBS455923 kit is based on CX26 antibody-CX26 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CX26 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CX26. 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 Testing Data/Standard Curve (for reference only) of CX26 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CX26. It may not necessarily be applicable to this product.

NCBI GI #	42558283
NCBI GeneID	2706
NCBI Accession #	NP_003995.2
UniProt Primary Accession #	P29033
UniProt Secondary Accession #	Q508A5; Q508A6; Q5YLL0; Q5YLL1; Q5YLL4; Q6IPV5; Q86U88; Q96AK0; Q9H536; Q9NNY4
UniProt Related Accession #	P29033
GenBank Nucleotide #	NM_004004.5
NCBI Official Full Name	gap junction beta-2 protein
NCBI Official Synonym Full Names	gap junction protein beta 2
NCBI Official Symbol	GJB2
NCBI Official Synonym Symbols	HID; KID; PPK; CX26; DFNA3; DFNB1; NSRD1; DFNA3A; DFNB1A
UniProt Protein Name	Gap junction beta-2 protein
UniProt Synonym Protein Names	Connexin-26; Cx26
Protein Family	Gap junction beta-2 protein
UniProt Gene Name	GJB2
UniProt Synonym Gene Names	Cx26
NCBI Protein Information	gap junction beta-2 protein
NCBI Summary for CX26	This gene encodes a member of the gap junction protein family. The gap junctions were first characterized by electron microscopy as regionally specialized structures on plasma membranes of contacting adherent cells. These structures were shown to consist of cell-to-cell channels that facilitate the transfer of ions and small molecules between cells. The gap junction proteins, also known as connexins, purified from fractions of enriched gap junctions from different tissues differ. According to sequence similarities at the nucleotide and amino acid levels, the gap junction proteins are divided into two categories, alpha and beta. Mutations in this gene are responsible for as much as 50% of pre-lingual, recessive deafness. [provided by RefSeq, Oct 2008]
UniProt Comments for CX26	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.

Research Articles on CX26	**1.** Low frequency of GJB2 mutations in this population is indicative that other genes may be involved in nonsyndromic hearing loss in Ilam populations.
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