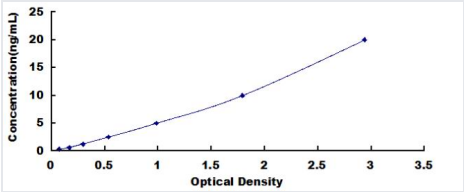
Discs, Large Homolog 3 (DLG3) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Discs, Large Homolog 3 (DLG3), ELISA Kit
Full Product Name	Human Discs, Large Homolog 3 (DLG3) ELISA Kit
Product Gene Name	DLG3 elisa kit
Product Synonym Names	MRX; XLMR; MRX90; NE-Dlg; NEDLG; SAP102; Neuroendocrine-Dlg; Synapse-associated protein 102
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.115ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	42,112 Da
OMIM	300189
3D Structure	ModBase 3D Structure for Q92796
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DLG3 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DLG3. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DLG3. 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 DLG3, 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 DLG3 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of DLG3 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 DLG3 purchase	MBS458870 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Discs, Large Homolog 3 (DLG3) 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 DLG3. The ELISA analytical biochemical technique of the MBS458870 kit is based on DLG3 antibody-DLG3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DLG3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DLG3. 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 DLG3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DLG3. It may not necessarily be applicable to this product.

NCBI GI #	261862237
NCBI GeneID	1741
NCBI Accession #	NP_001159750.1
UniProt Primary Accession #	Q92796
UniProt Secondary Accession #	Q5JUW6; Q5JUW7; Q9ULI8; B4E0H1; D3DVU5
UniProt Related Accession #	Q92796
GenBank Nucleotide #	NM_001166278.1
NCBI Official Full Name	disks large homolog 3 isoform c
NCBI Official Synonym Full Names	discs large MAGUK scaffold protein 3
NCBI Official Symbol	DLG3
NCBI Official Synonym Symbols	MRX; XLMR; MRX90; NEDLG; SAP102; PPP1R82
UniProt Protein Name	Disks large homolog 3
UniProt Synonym Protein Names	Neuroendocrine-DLG; Synapse-associated protein 102; SAP-102; SAP102; XLMR
Protein Family	Disks large
UniProt Gene Name	DLG3
UniProt Synonym Gene Names	KIAA1232; SAP-102; SAP102
NCBI Protein Information	disks large homolog 3
NCBI Summary for DLG3	This gene encodes a member of the membrane-associated guanylate kinase protein family. The encoded protein may play a role in clustering of NMDA receptors at excitatory synapses. It may also negatively regulate cell proliferation through interaction with the C-terminal region of the adenomatosis polyposis coli tumor suppressor protein. Mutations in this gene have been associated with X-linked cognitive disability. Alternatively spliced transcript variants have been described. [provided by RefSeq, Oct 2009]
UniProt Comments for DLG3	Required for learning most likely through its role in synaptic plasticity following NMDA receptor signaling.
Research Articles on DLG3	**1.** This family broadens the mutational and phenotypical spectrum of DLG3-associated non-syndromic X-linked intellectual disability and demonstrates that heterozygous female mutation carriers can be as severely affected as males.
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