Dipeptidyl Peptidase 6 (DPP6) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Dipeptidyl Peptidase 6 (DPP6), ELISA Kit
Full Product Name	Mouse Dipeptidyl Peptidase 6 ELISA Kit
Product Gene Name	DPP6 elisa kit
Species Reactivity	Mouse
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	97,588 Da
OMIM	126141
3D Structure	ModBase 3D Structure for P42658
Related Product Information for DPP6 elisa kit	MBS066092 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dipeptidyl Peptidase 6 (DPP6) 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 DPP6. The ELISA analytical biochemical technique of the MBS066092 kit is based on DPP6 antibody-DPP6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DPP6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DPP6. 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(%).
Other Notes	Small volumes of DPP6 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPP6. It may not necessarily be applicable to this product.

NCBI GI #	218512016
NCBI GeneID	1804
NCBI Accession #	P42658.2
UniProt Primary Accession #	P42658
UniProt Related Accession #	P42658
NCBI Official Full Name	Dipeptidyl aminopeptidase-like protein 6
NCBI Official Synonym Full Names	dipeptidyl-peptidase 6
NCBI Official Symbol	DPP6
NCBI Official Synonym Symbols	VF2; DPPX
UniProt Protein Name	Dipeptidyl aminopeptidase-like protein 6
UniProt Synonym Protein Names	DPPX; Dipeptidyl aminopeptidase-related protein; Dipeptidyl peptidase 6; Dipeptidyl peptidase IV-like protein; Dipeptidyl peptidase VI
Protein Family	Dipeptidyl aminopeptidase-like protein
UniProt Gene Name	DPP6

UniProt Synonym Gene Names	DPP VI
UniProt Entry Name	DPP6_HUMAN
NCBI Protein Information	dipeptidyl aminopeptidase-like protein 6; DPP VI; dipeptidyl peptidase VI; dipeptidyl peptidase IV-related protein; dipeptidyl aminopeptidase IV-related protein
NCBI Summary for DPP6	This gene encodes a single-pass type II membrane protein that is a member of the peptidase S9B family of serine proteases. This protein has no detectable protease activity, most likely due to the absence of the conserved serine residue normally present in the catalytic domain of serine proteases. However, it does bind specific voltage-gated potassium channels and alters their expression and biophysical properties. Variations in this gene may be associated with susceptibility to amyotrophic lateral sclerosis and with idiopathic ventricular fibrillation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]
UniProt Comments for DPP6	DPP6: May be involved in the physiological processes of brain function. Has no dipeptidyl aminopeptidase activity. May modulate the cell surface expression and the activity of the potassium channel KCND2. Defects in DPP6 are the cause of familial paroxysmal ventricular fibrillation type 2 (VF2). A cardiac arrhythmia marked by fibrillary contractions of the ventricular muscle due to rapid repetitive excitation of myocardial fibers without coordinated contraction of the ventricle and by absence of atrial activity. A genetic variation 340 bases upstream from the ATG start site of the DPP6 gene is the cause of familial paroxysmal ventricular fibrillation type 2. Belongs to the peptidase S9B family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; Membrane protein, integral Chromosomal Location of Human Ortholog: 7q36.2 Cellular Component: voltage-gated potassium channel complex; plasma membrane; integral to membrane Molecular Function: potassium channel regulator activity; serine-type peptidase activity; dipeptidyl-peptidase activity Biological Process: generation of action potential; proteolysis Disease: Ventricular Fibrillation, Paroxysmal Familial, 2; Mental Retardation, Autosomal Dominant 33
Research Articles on DPP6	**1.** Two DPP6 de novo deletions and one missense mutation in familial microcephalic patients were identified.
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