Protocadherin Fat 4 (FAT4) ELISA Kit for Rabbit

PRODUCT OVERVIEW

Product Name	Protocadherin Fat 4 (FAT4), ELISA Kit
Full Product Name	Rabbit Protocadherin Fat 4 (FAT4) ELISA Kit
Product Gene Name	FAT4 elisa kit
Species Reactivity	Rabbit
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	542,616 Da
OMIM	AY356402 mRNA
Related Product Information for FAT4 elisa kit	MBS9397492 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Protocadherin Fat 4 (FAT4) 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 FAT4. The ELISA analytical biochemical technique of the MBS9397492 kit is based on FAT4 antibody-FAT4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect FAT4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, FAT4. 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 FAT4 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 FAT4. It may not necessarily be applicable to this product.

NCBI GI #	604723349
NCBI GeneID	79633
NCBI Accession #	NP_001278232.1
UniProt Secondary Accession #	Q3LIA6; Q8TCK7; Q9H5T6; A8K5Z6; B5MDG4
UniProt Related Accession #	Q6V0I7
GenBank Nucleotide #	NM_001291303.1
NCBI Official Full Name	protocadherin Fat 4 isoform 1
NCBI Official Synonym Full Names	FAT atypical cadherin 4
NCBI Official Symbol	FAT4
NCBI Official Synonym Symbols	FATJ; FAT-J; CDHF14; CDHR11; HKLLS2; VMLDS2; NBLA00548
UniProt Protein Name	Protocadherin Fat 4
UniProt Synonym Protein Names	Cadherin family member 14; FAT tumor suppressor homolog 4; Fat-like cadherin protein FAT-J
Protein Family	Protocadherin
UniProt Gene Name	FAT4
UniProt Synonym Gene Names	CDHF14; FATJ; hFat4

NCBI Protein Information	protocadherin Fat 4
NCBI Summary for FAT4	The protein encoded by this gene is a member of the protocadherin family. This gene may play a role in regulating planar cell polarity (PCP). Studies in mice suggest that loss of PCP signaling may cause cystic kidney disease, and mutations in this gene have been associated with Van Maldergem Syndrome 2. Alternatively spliced transcript variants have been noted for this gene. [provided by RefSeq, Mar 2014]
UniProt Comments for FAT4	FAT4: May function in the regulation of planar cell polarity. Cadherins are cell-cell interaction molecules. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 4q28.1 Cellular Component: apical part of cell; extracellular exosome; integral component of membrane; intracellular; plasma membrane Molecular Function: calcium ion binding; protein binding Biological Process: branching involved in ureteric bud morphogenesis; cerebral cortex development; condensed mesenchymal cell proliferation; fibroblast growth factor receptor signaling pathway; gut development; heart morphogenesis; heterophilic cell-cell adhesion via plasma membrane cell adhesion molecules; homophilic cell adhesion; inner ear receptor stereocilium organization and biogenesis; neurogenesis; Notch signaling pathway; plasma membrane organization; regulation of metanephric nephron tubule epithelial cell differentiation Disease: Hennekam Lymphangiectasia-lymphedema Syndrome 2; Van Maldergem Syndrome 2
Research Articles on FAT4	**1.** Study shows that when key regulators during mammalian cerebral cortical development are disrupted due to DCHS1-FAT4 mutations, functional cerebral asymmetries are stronger.
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