FAT4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FAT4, Polyclonal Antibody
Full Product Name	FAT4 Antibody
Product Gene Name	anti-FAT4 antibody
Product Synonym Names	FATJ; FAT-J; CDHF14; CDHR11; NBLA00548
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total FAT4 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	542,616 Da
OMIM	612411
3D Structure	ModBase 3D Structure for Q6V0I7
Immunogen	Synthetic peptide corresponding to residues near the C terminal of human FAT tumor suppressor homolog 4 (Drosophila)
Product Categories/Family for anti-FAT4 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FAT4 antibody	Immunohistochemistry (IHC)
Application Notes for anti-FAT4 antibody	IHC: 1:25-1:100
Related Product Information for anti-FAT4 antibody	FAT1, FAT2, FAT3 and FAT4 are human homologs of Drosophila Fat, which is involved in tumor suppression and planar cell polarity (PCP). FAT4 undergo the first proteolytic cleavage by Furin and are predicted to undergo the second cleavage by gamma secretase to release intracellular domain (ICD). FAT4 directly interacts with MPDZ/MUPP1 to recruit membrane associated guanylate kinase MPP5/PALS1. FAT4 is involved in the maintenance of PCP and inhibition of cell proliferation
Other Notes	Small volumes of anti-FAT4 antibody 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 FAT4 purchase	MBS8590634 is an antibody targeting FAT4. Also known as FAT4 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FAT4. It may not necessarily be applicable to this product.

NCBI GI #	603844373
NCBI GeneID	79633
NCBI Accession #	NP_001278214.1
UniProt Primary Accession #	Q6V0I7
UniProt Secondary Accession #	Q3LIA6; Q8TCK7; Q9H5T6; A8K5Z6; B5MDG4
UniProt Related Accession #	Q6V0I7
GenBank Nucleotide #	NM_001291285.1
NCBI Official Full Name	protocadherin Fat 4 isoform 2
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
UniProt Entry Name	FAT4_HUMAN
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; plasma membrane; integral to membrane Molecular Function: protein binding; calcium ion binding Biological Process: heart morphogenesis; heterophilic cell adhesion; inner ear receptor stereocilium organization and biogenesis; plasma membrane organization and biogenesis; neurogenesis; gut development; ureteric bud branching; cerebral cortex development; homophilic cell adhesion Disease: Van Maldergem Syndrome 2; Hennekam Lymphangiectasia-lymphedema Syndrome 2
Research Articles on FAT4	**1.** These findings suggest that Fat and Dachsous self-bend due to the loss of Ca(2+)-binding amino acids from specific EC-EC linkers, and can therefore adapt to confined spaces.
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