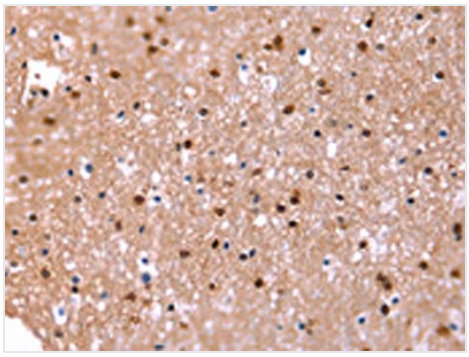
FAT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FAT1, Polyclonal Antibody
Full Product Name	FAT1 Antibody
Product Gene Name	anti-FAT1 antibody
Product Synonym Names	FAT atypical cadherin 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	506,273 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (187508937..187647876, complement). Location: 4q35
OMIM	600976
3D Structure	ModBase 3D Structure for Q14517
Immunogen	Synthetic peptide of human FAT1
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-FAT1 antibody	Cell Biology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FAT1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-FAT1 antibody	ELISA: 1:1000-1:2000 IHC: 1:25-1:100
Related Product Information for anti-FAT1 antibody	MBS7128929 is an antibody targeting FAT1. Also known as FAT1 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-FAT1 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.



Immunohistochemistry (IHC)-Paraffin of anti-FAT1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using MBS7128929(FAT1 Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FAT1. It may not necessarily be applicable to this product.

NCBI GI #	66346693
NCBI GeneID	2195
NCBI Accession #	NP_005236.2
UniProt Primary Accession #	Q14517
UniProt Related Accession #	Q14517
GenBank Nucleotide #	NM_005245.3
NCBI Official Full Name	protocadherin Fat 1
NCBI Official Synonym Full Names	FAT atypical cadherin 1
NCBI Official Symbol	FAT1
NCBI Official Synonym Symbols	FAT; ME5; CDHF7; CDHR8; hFat1
UniProt Protein Name	Protocadherin Fat 1
UniProt Synonym Protein Names	Cadherin family member 7; Cadherin-related tumor suppressor homolog; Protein fat homolog
Protein Family	Actin-interacting protein
UniProt Gene Name	FAT1
UniProt Synonym Gene Names	CDHF7; FAT
UniProt Entry Name	FAT1_HUMAN
NCBI Protein Information	protocadherin Fat 1; cadherin ME5; protein fat homolog; FAT tumor suppressor 1; cadherin family member 7; FAT tumor suppressor homolog 1; cadherin-related family member 8; cadherin-related tumor suppressor homolog
NCBI Summary for FAT1	This gene is an ortholog of the Drosophila fat gene, which encodes a tumor suppressor essential for controlling cell proliferation during Drosophila development. The gene product is a member of the cadherin superfamily, a group of integral membrane proteins characterized by the presence of cadherin-type repeats. In addition to containing 34 tandem cadherin-type repeats, the gene product has five epidermal growth factor (EGF)-like repeats and one laminin A-G domain. This gene is expressed at high levels in a number of fetal epithelia. Its product probably functions as an adhesion molecule and/or signaling receptor, and is likely to be important in developmental processes and cell communication. Transcript variants derived from alternative splicing and/or alternative promoter usage exist, but they have not been fully described. [provided by RefSeq, Jul 2008]

UniProt Comments for FAT1	Function: Plays an essential role for cellular polarization, directed cell migration and modulating cell-cell contact By similarity. Subunit structure: Interacts (via the C-terminus 4300-4400 AA) with ATN1. Interacts with RERE. Interacts (via EVH1 domains) with ENAH By similarity. Interacts (via cytoplasmic domain) with CTNNB1 By similarity. Ref.5 Subcellular location: Cell membrane; Single-pass type I membrane protein. Nucleus. Cytoplasm › perinuclear region Ref.3. Tissue specificity: Expressed in many epithelial and some endothelial and smooth muscle cells. Domain: A PTB-like motif (DNXYH sequence) is required for the targeting to the leading edge. This motif represents a minimal protein-protein interaction core motif that is not regulated by tyrosine phosphorylation By similarity. Post-translational modification: Undergoes proteolytic cleavage. The extracellular domain is cleaved off and the cytoplasmic domain (about 400 AA) shuttles to the nucleus. Ref.3 Sequence similarities: Contains 33 cadherin domains.Contains 5 EGF-like domains.Contains 1 laminin G-like domain.
Research Articles on FAT1	**1.** Our study identifies FAT1 as a critical determinant of muscle form, misregulation of which associates with facioscapulohumeral dystrophy .
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