FAT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FAT, Polyclonal Antibody
Full Product Name	FAT Antibody FITC Conjugated
Product Gene Name	anti-FAT antibody
Product Synonym Names	Cadherin family member 7; cadherin family member 7 precursor; cadherin ME5; Cadherin related tumor suppressor; Cadherin related tumor suppressor homolog; cadherin related tumor suppressor homolog precursor; Cadherin related tumor suppressor homolog precursor FAT protein homolog; CDHF 7; CDHF7; FAT 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	10mM Tris Buffered Saline containing 1% BSA, 50% glycerol and 0.09% sodium azide.
Purity/Purification	Purified by Protein A
Concentration	1mgml (lot specific)
Preparation and Storage	Store at 4 degree C for 12 months.
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
Conjugation	FITC
Excitation Emission	494nm 518nm
Immunogen	KLH conjugated synthetic peptide derived from human FAT CDHF7
Product Categories/Family for anti-FAT antibody	Conjugated Primary Antibodies
Applications Tested/Suitable for anti-FAT antibody	Immunofluorescence (IF)
Application Notes for anti-FAT antibody	IF: 1:50-200
Related Product Information for anti-FAT antibody	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].
Other Notes	Small volumes of anti-FAT 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 FAT purchase	MBS9461442 is an antibody targeting FAT. Also known as FAT Antibody FITC Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FAT. 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	Fat body 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 FAT	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 FAT	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 FAT	**1.** Our study identifies FAT1 as a critical determinant of muscle form, misregulation of which associates with facioscapulohumeral dystrophy .
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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