



Rabbit Anti-FAT antibody

SL4278R

Product Name:	FAT
Chinese Name:	钙粘蛋白家族成员7抗体
Alias:	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; FAT tumor suppressor 1; FAT tumor suppressor homolog 1; FAT1; hFat 1; hFAT; hFat1; homolog of Drosophila FAT protein; homolog of Drosophila FAT protein precursor; homolog of Drosophila tumor suppressor FAT precursor; ME 5; ME5; Protein fat homolog.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	506kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FAT/CDHF7:1401-1500/4588
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

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].

Function:

Plays an essential role for cellular polarization, directed cell migration and modulating cell-cell contact.

Subunit:

Interacts (via the C-terminus 4300-4400 AA) with ATN1. Interacts with RERE. Interacts (via EVH1 domains) with ENAH. Interacts (via cytoplasmic domain) with CTNNB1.

Subcellular Location:

Cell membrane; Single-pass type I membrane protein. Nucleus Cytoplasm, perinuclear region.

Tissue Specificity:

Expressed in many epithelial and some endothelial and smooth muscle cells.

Post-translational modifications:

Undergoes proteolytic cleavage. The extracellular domain is cleaved off and the cytoplasmic domain (about 400 AA) shuttles to the nucleus.

SWISS:

Q14517

Gene ID:

2195

Database links:

[Entrez Gene: 2195](#)Human

[Entrez Gene: 14107](#)Mouse

[Omir: 600976](#)Human

[SwissProt: Q14517](#)Human

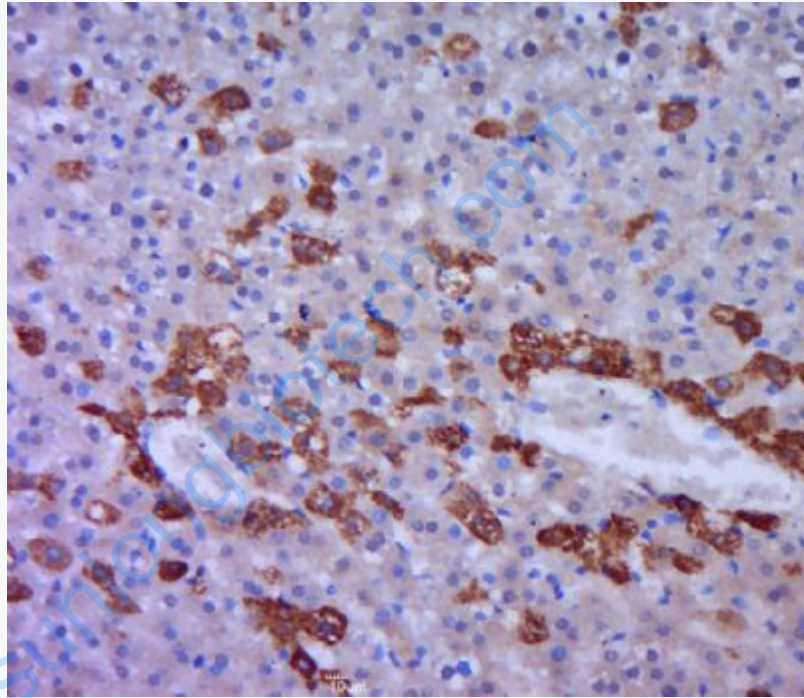
Product Detail:

[Unigene: 481371](#)Human

[Unigene: 27365](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (rat liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FAT) Polyclonal Antibody, Unconjugated (SL4278R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.