



## Rabbit Anti-Afadin/I Afadin/FITC Conjugated antibody

SL2754R-FITC

<b>Product Name:</b>	Anti-Afadin/I Afadin/FITC
<b>Chinese Name:</b>	FITC标记的丝状肌动蛋白Binding protein抗体
<b>Alias:</b>	AF 6; AF6; AFAD_HUMAN; Afadin; ALL1-fused gene from chromosome 6 protein; FLJ34371; MLLT 4; MLLT4; Myeloid/lymphoid or mixed lineage leukemia (trithorax homolog Drosophila) translocated to 4; Myeloid/lymphoid or mixed lineage leukemia translocated to 4; Protein AF 6; Protein Af-6; Protein AF6; RP3 431P23.3; 5033403D15Rik; Gm314; I-afadin; Mllt4; S-afadin.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
<b>Applications:</b>	IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	136kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human AF6
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>Product Detail:</b>	<b>background:</b> Afadin is a cell-cell adherens junction F-actin binding multidomain protein. Two splice variants of afadin have been described: I-afadin, which is ubiquitously expressed, and

the smaller s-afadin, which is abundantly expressed in neural tissue. l-Afadin contains one PDZ domain near its middle followed by three proline-rich and one F-actin-binding region at the carboxyl-terminal. l/s-Afadin is localized to cell-cell junctions and binds several cytoplasmic proteins such as the small GTPase Ras, the tight junction protein ZO-1, and the vinculin binding protein ponsin/SH3P12.

**Function:**

Belongs to an adhesion system, probably together with the E-cadherin-catenin system, which plays a role in the organization of homotypic, interneuronal and heterotypic cell-cell adherens junctions (AJs). Nectin- and actin-filament-binding protein that connects nectin to the actin cytoskeleton.

**Subunit:**

Homodimer. Interacts with F-actin, nectin and PVRL3/nectin-3. Essential for the association of nectin and E-cadherin. Isoform l/s-afadin does not interact with F-actin. Interacts with ZO-1 and occludin, but probably in an indirect manner. Interacts with RIT1 and RIT2 (By similarity). Interacts with NRXN1 and BCR.

**Subcellular Location:**

Cell junction, adherens junction. Note=Not found at cell-matrix AJs.

**DISEASE:**

Note=A chromosomal aberration involving MLLT4 is associated with acute leukemias. Translocation t(6;11)(q27;q23) with MLL/HRX. The result is a rogue activator protein.

**Similarity:**

Contains 1 dilute domain.  
Contains 1 FHA domain.  
Contains 1 PDZ (DHR) domain.  
Contains 2 Ras-associating domains

**Database links:**

[Entrez Gene: 4301](#)Human

[Entrez Gene: 17356](#)Mouse

[Entrez Gene: 26955](#)Rat

[Omim: 159559](#)Human

[SwissProt: P55196](#)Human

[SwissProt: Q9QZQ1](#)Mouse

[SwissProt: O35889](#)Rat

[Unigene: 614974](#)Human

[Unigene: 644024](#)Human

[Unigene: 708726](#)Human

[Unigene: 728849](#)Human

[Unigene: 59167](#)Mouse

[Unigene: 58](#)Rat

**Important Note:**

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

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