



Rabbit Anti-Afadin/I Afadin antibody

SL2754R

Product Name:	Afadin/I Afadin
Chinese Name:	丝状肌动蛋白Binding protein抗体
Alias:	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.
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:	207kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human AF6:341-440/1816
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
Product Detail:	Afadin is a cell-cell adherens junction F-actin binding multidomain protein. Two splice variants of afadin have been described: l-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. 1/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 1/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

SWISS:

P55196

Gene ID:

4301

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

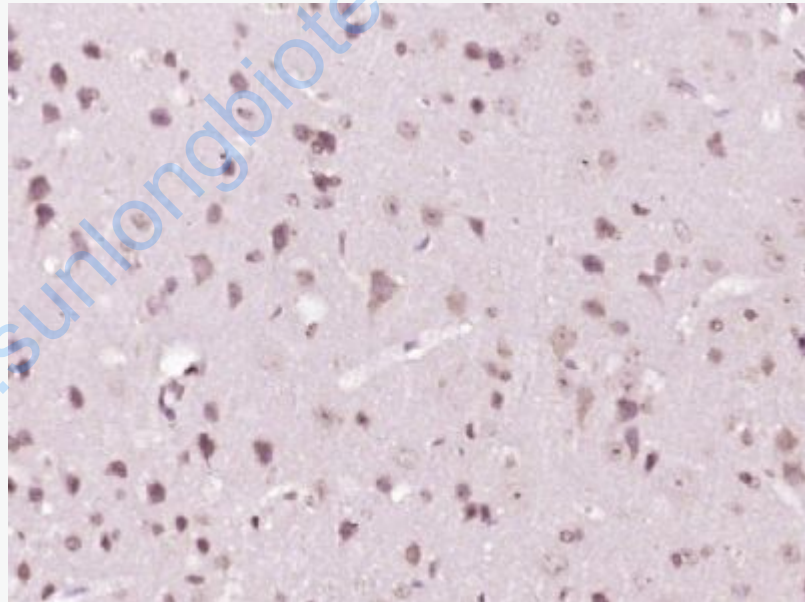
[Unigene: 59167](#)Mouse

[Unigene: 58](#)Rat

Important Note:

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

Picture:



Paraformaldehyde-fixed, paraffin embedded (mouse brain 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 (Afadin) Polyclonal Antibody, Unconjugated (SL2754R) at 1:400 overnight at 4°C, followed by operating

	according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.
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