SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Marker Primary Antibody]

Rabbit Anti-Afadin/I Afadin/FITC Conjugated antibody

Catalog Number: SL2754R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Afadin/I Afadin/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human AF6
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Pig,Cow,Horse)
Subcellular Location:	The cell membrane
Background:	background: 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. 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 1/s-afadin does

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	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.