

Afadin Rabbit pAb

Catalog # AP98293

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P55196
Other Accession	P55196
Host	Rabbit
Clonality	Polyclonal
Calculated MW	206804
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Afadin
Epitope Specificity	341-440/1824
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 dilute domain.Contains 1 FHA domain. Contains 1 PDZ (DHR) domain. Contains 2 Ras-associating domains
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.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	4301
Other Names	AF6; MLL-AF6; MLLT4; l-afadin; 5033403D15Rik; Af-6; Afadin; Gm314; I-afadin; S-afadin; AFAD_HUMAN; AFDN; ALL1-fused gene from chromosome 6 protein (Protein AF-6); Afadin adherens junction formation factor; AFAD_MOUSE; Protein Af-6; AFAD_RAT; afadin, adherens junction formation factor; myeloid/lymphoid or mixed-lineage leukemia; translocated to, 4

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	AFDN (HGNC:7137)
Synonyms	AF6, MLLT4
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) (By similarity). Nectin- and actin-filament-binding protein that connects nectin to the actin cytoskeleton (PubMed: 11024295). May play a key role in the organization of epithelial structures of the embryonic ectoderm (By similarity). Essential for the organization of adherens junctions (PubMed: 30463011).
Cellular Location	Cell junction, adherens junction. Note=Not found at cell-matrix AJs {ECO:0000250 UniProtKB:O35889}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.