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Afadin Rabbit pAb

Catalog # AP98293

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P55196
Other Accession	P55196
Reactivity	Mouse
Predicted	Rat, Pig, Human, Dog, Horse
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'.