

Rabbit Anti-phospho-Afadin (Ser1721)/AP Conjugated antibody

SL3072R-AP

Product Name	Anti-phospho-Afadin (Ser1721)/AP
Chinese Name	碱性磷酸酶 (AP) 标记的磷酸化丝状肌动蛋白 Binding protein 抗体
Alias	p-Afadin(Ser1721); Afadin (phospho S1721); Afadin (phospho Ser1721); MLLT4; Protein AF6; AF6; Afadin; AFAD_HUMAN; ALL1-fused gene from chromosome 6 protein; Protein AF-6.
Product Type	Phosphorylated anti
Research Area	Cell biology immunology Neurobiology Signal transduction Apoptosis
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat) WB=1000-10000,ELISA=1:500-5000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	201kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated Synthesised phosphopeptide derived from human Afadin around the phosphorylation site of Ser1721 [VL(p-S)PD]
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. 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.
Storage	
Product Detail	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 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.