

Datasheet for ABIN968143
anti-Afadin antibody (AA 1091-1233)

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Overview

Quantity:	50 µg
Target:	Afadin (MLLT4)
Binding Specificity:	AA 1091-1233
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Afadin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human AF6 aa. 1091-1233
Clone:	35-AF6
Isotype:	IgG2a
Cross-Reactivity:	Rat (Rattus), Mouse (Murine)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Please refer to us for technical protocols.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	Afadin (MLLT4)
Alternative Name:	AF6 (MLLT4 Products)
Background:	<p>AF6 (ALL-1 Fusion partner in chromosome 6) was discovered as the fusion partner of ALL-1. These genes undergo translocation and fusion in acute myeloid leukemias. AF6, or p180, was also identified as a Ras-interacting protein isolated from bovine brain. AF6 binds to the GTP-Ras but not to the inactive GDP, or ineffective forms of Ras. The interaction between AF6 and Ras may regulate the Ras signaling pathway since this association was prevented by the binding of c-Raf-1 to Ras. The Ras-binding site is located within amino acids 36-206 of AF6. AF6 is 1612 amino acids in length with homology to the DLG family of proteins located in cell-cell junctions, suggesting AF6 might be important in cell-to-cell communicative events. Furthermore, AF6 has the GLGF motif characteristic of DLG proteins that include Drosophila's Canoe, implicated in the developmental pathway triggered by Notch activation. Like AF6, Canoe was also identified as a Ras-binding protein. The amino acid sequence and biochemical property similarities between Canoe and AF6 indicate that the latter may be important in developmental processes regulated by Ras.</p> <p>Synonyms: ALL-1 Fusion partner in chromosome 6</p>
Molecular Weight:	182 kDa
Pathways:	Cell-Cell Junction Organization

Application Details

Comment:	Related Products: ABIN968545, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	Store undiluted at -20° C.
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Publications

Product cited in:

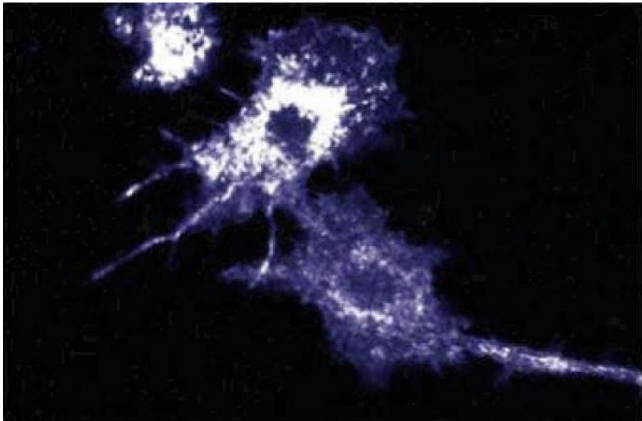
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Ebnet, Schulz, Meyer Zu Brickwedde, Pendl, Vestweber: "Junctional adhesion molecule interacts with the PDZ domain-containing proteins AF-6 and ZO-1." in: **The Journal of biological chemistry**, Vol. 275, Issue 36, pp. 27979-88, (2000) ([PubMed](#)).

Buchert, Schneider, Meskenaite, Adams, Canaani, Baechi, Moelling, Hovens: "The junction-associated protein AF-6 interacts and clusters with specific Eph receptor tyrosine kinases at specialized sites of cell-cell contact in the brain." in: **The Journal of cell biology**, Vol. 144, Issue 2, pp. 361-71, (1999) ([PubMed](#)).

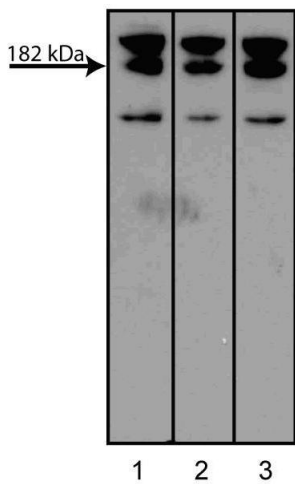
Kuriyama, Harada, Kuroda, Yamamoto, Nakafuku, Iwamatsu, Yamamoto, Prasad, Croce, Canaani, Kaibuchi: "Identification of AF-6 and canoe as putative targets for Ras." in: **The Journal of biological chemistry**, Vol. 271, Issue 2, pp. 607-10, (1996) ([PubMed](#)).

Prasad, Gu, Alder, Nakamura, Canaani, Saito, Huebner, Gale, Nowell, Kuriyama: "Cloning of the ALL-1 fusion partner, the AF-6 gene, involved in acute myeloid leukemias with the t(6;11) chromosome translocation." in: **Cancer research**, Vol. 53, Issue 23, pp. 5624-8, (1994) ([PubMed](#)).



Immunofluorescence

Image 1. Immunofluorescence staining of mouse macrophages.



Western Blotting

Image 2. Western blot analysis of AF6 on a PC-12 cell lysate (Rat neuroblastoma, ATCC CRL-1721). Lane 1: 1:125, lane 2: 1:250, lane 3: 1:500 dilution of the mouse anti-AF6 antibody.