

Technical Data Sheet

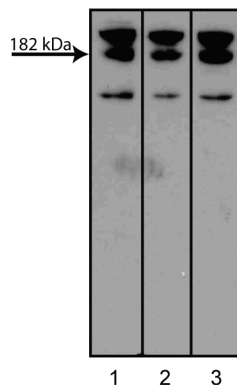
Purified Mouse Anti-AF6

Product Information

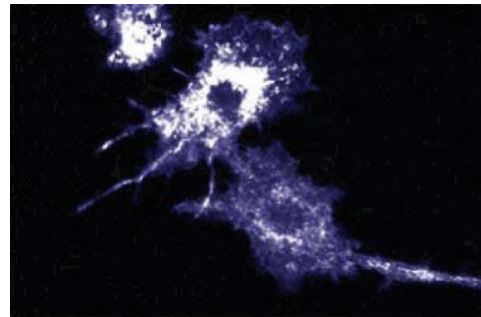
Material Number:	610732
Alternate Name:	ALL-1 Fusion partner in chromosome 6
Size:	50 µg
Concentration:	250 µg/ml
Clone:	35/AF6
Immunogen:	Human AF6 aa. 1091-1233
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Rat Tested in Development: Human, Mouse
Target MW:	182 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

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.



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.



Immunofluorescence staining of mouse macrophages.

BD Biosciences

www.bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit www.bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2007 BD



Preparation and Storage

Store undiluted at -20° C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

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 www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Buchert M, Schneider S, Meskenaite V, et al. 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. *J Cell Biol.* 1999; 144(2):361-371.(Biology: Electron microscopy, Immunofluorescence)

Cordenonsi M, D'Atri F, Hammar E, et al. Cingulin contains globular and coiled-coil domains and interacts with ZO-1, ZO-2, ZO-3, and myosin. *J Cell Biol.* 1999; 147(7):1569-1581.(Biology: Western blot)

Ebnet K, Schulz CU, Meyer Zu Brickwedde MK, Pendl GG, Vestweber D. Junctional adhesion molecule interacts with the PDZ domain-containing proteins AF-6 and ZO-1. *J Biol Chem.* 2000; 275(36):27979-27988.(Biology: Western blot)

Kuriyama M, Harada N, Kuroda S, et al. Identification of AF-6 and canoe as putative targets for Ras. *J Biol Chem.* 1996; 271(2):607-610.(Biology)

Prasad R, Gu Y, Alder H, et al. Cloning of the ALL-1 fusion partner, the AF-6 gene, involved in acute myeloid leukemias with the t(6;11) chromosome translocation. *Cancer Res.* 1993; 53(23):5624-5628.(Biology)