Technical Data Sheet

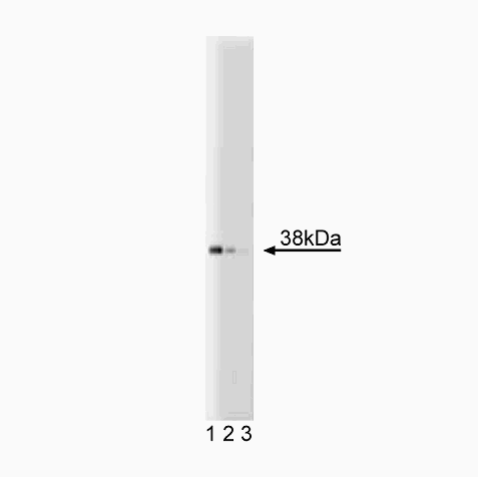
Purified Mouse Anti-JAB1

Product Information

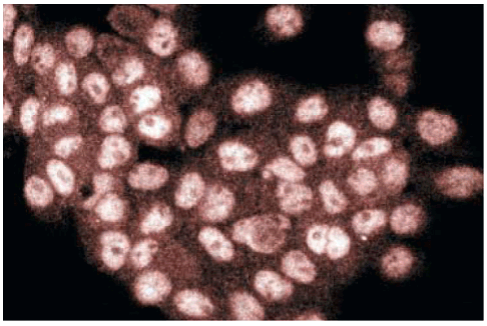
Material Number:	**611619**
Size:	150 µg
Concentration:	250 µg/ml
Clone:	42/JAB1
Immunogen:	Human JAB1 aa. 234-334
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Rat, Mouse
Target MW:	38 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

JAB1 (**J**un **a**ctivation domain-**b**inding protein-**1**) was isolated in a yeast two- hybrid screen using the c-Jun N-terminal activation domain. Binding of JAB1 to Jun potentiates activator protein transcription factor (AP-1) target gene transcription. JAB1 interacts with c-Jun and JunD, but not with JunB or v-Jun. It also interacts with other transcriptional regulatory complexes, such as the activator of stromelysin 1 gene transcription complex (RNF4/SPBP) and the steroid receptor coactivator-1 complex. Additionally, JAB1 is the CSN5 subunit of the COP9 signalosome, which contains multiple proteins with homologies to proteins present in the 19S subunit of the proteosome. Interestingly, JAB1 has been implicated in the instigation of p27kip1 and rat lutropin/choriogonadotropin receptor degradation. JAB1 has also been found to be involved in integrin signaling cascades, because it colocalizes with the integrin LFA-1 receptor and is translocated to the nucleus, where it enhances transactivation of the AP-1- dependent promoter following integrin stimulation. Thus, JAB1 is a multifunctional protein that regulates both gene transcription and protein degradation.



Western blot analysis of JAB1 on Jurkat cell lysate. *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-JAB1.*



Immunofluorescent staining of A431 cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

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

BD Biosciences

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 **bdbiosciences.com/how_to_order/**

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat Cell 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. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Chauchereau A, Georgiakaki M, Perrin-Wolff M, Milgrom E, Loosfelt H. JAB1 interacts with both the progesterone receptor and SRC-1. *J Biol Chem.* 2000; 275(12):8540-8548.(Biology)

Claret FX, Hibi M, Dhut S, Toda T, Karin M. A new group of conserved coactivators that increase the specificity of AP-1 transcription factors. *Nature.* 1996; 383(6599):453-457.(Biology)

Ishida N, Hara T, Kamura T, Yoshida M, Nakayama K, Nakayama KI. Phosphorylation of p27Kip1 on serine 10 is required for its binding to CRM1 and nuclear export. *J Biol Chem.* 2002; 277(17):14355-14358.(Clone-specific: Western blot)

Li S, Liu X, Ascoli M. p38JAB1 binds to the intracellular precursor of the lutropin/choriogonadotropin receptor and promotes its degradation. *J Biol Chem.* 2000; 275(18):13386-13393.(Biology)

Tomoda K, Kubota Y, Kato J. Degradation of the cyclin-dependent-kinase inhibitor p27Kip1 is instigated by Jab1. *Nature.* 1999; 398(6723):160-165.(Biology)