

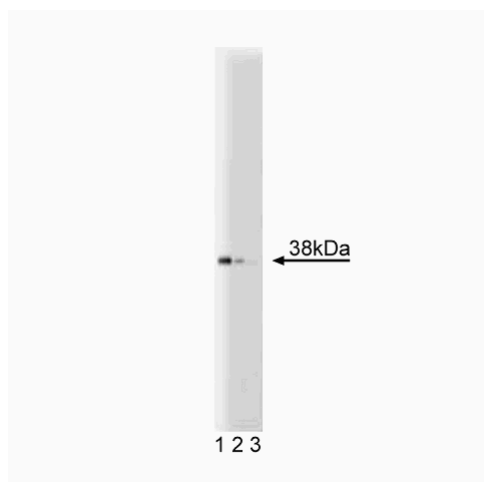
Technical Data Sheet

Purified Mouse Anti-JAB1/CSN5**Product Information**

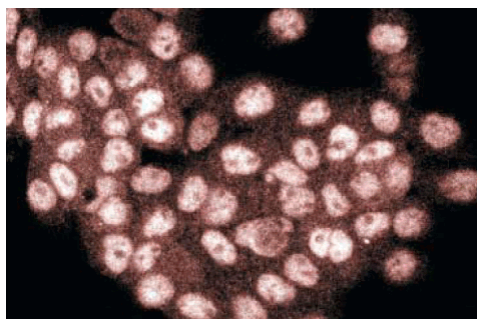
| | |
|-------------------------|--|
| Material Number: | 611618 |
| Size: | 50 µg |
| Concentration: | 250 µg/ml |
| Clone: | 42/JAB1 |
| Immunogen: | Human JAB1 aa. 234-334 |
| Isotype: | Mouse IgG1 |
| Reactivity: | QC Testing: Human Tested in Development: Rat, Mouse |
| Target MW: | 38 kDa |
| Storage Buffer: | Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide. |

Description

JAB1 (Jun activation domain-binding 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 proteasome. 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 antibody.



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.

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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

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