



Qty: 100 µg/200 µL

Mouse anti-JAB1 (Mid)

For Research Use Only

Catalog No. 37-1500

Lot No.

Mouse anti-JAB1 (Mid)

FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: 3F10B10

ISOTYPE: Mouse IgG₁-kappa

IMMUNOGEN

Synthetic peptide derived from the internal region of JAB1 (Jun activation domain-binding protein 1, CSN5).

SPECIFICITY

This antibody is specific for the JAB1 protein. On Western blots, it identifies a band at ~40 kDa.

REACTIVITY

Reactivity has been confirmed with human 293T and Jurkat cell lysates by Western blotting and immunoprecipitation.

Sample	Immuno-precipitation (native)	Western Blotting	ELISA
Human	+++	++	ND
Mouse	ND	ND	ND
Immunogen	N/A	N/A	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunoprecipitation : 1-3 µg/mL

Western Blotting : 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI371500

(Rev 10/08) DCC-08-1089

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BACKGROUND

Jun activation domain-binding protein 1 (JAB1, also known as CSN5) is a co-activator of AP-1 that was first identified in its interaction with the activation domain of c-Jun.¹ JAB1 is also a component of the CSN multiprotein complex, which modulates signal transduction, gene transcription, and protein stability. JAB1 interacts with p27, shuttling it from the nucleus to the cytoplasm and decreasing the level of p27 in the cell by increasing its degradation via the ubiquitin-proteasome pathway.^{2,3}

An inverse relationship in expression levels of p27 and JAB1 has been reported in various cancer tissues. In a study of 80 cases of epithelial ovarian tumors, JAB1 expression correlated inversely with p27 expression, with JAB1 overexpression significantly associated with poor patient prognosis.⁴ Immunohistochemical analysis of a series of 53 invasive breast carcinoma specimens and their adjacent normal breast tissue counterparts also demonstrated an inverse association between JAB1 and p27; patients with no JAB1 expression had the highest survival rate, while patients with high JAB1 levels had the lowest survival rate.⁵ JAB1 and p27 are also inversely related in anaplastic large cell lymphoma (ALCL); however, in all 54 patients examined, p27 expression correlated with worse overall survival in both ALK-positive and ALK-negative groups.⁶

REFERENCES

1. Claret FX, et al. *Nature* 383(6599):453-457, 1996.
2. Tomoda K, et al. *Nature* 398:160-165, 1999.
3. Tomoda K, et al. *J Biol Chem* 277(3):2302-2310, 2002.
4. Sui L, et al. *Clin Cancer Res* 7(12):4130-4135, 2001.
5. Kouvaraki MA, et al. *Cancer Res* 63:2977-2981, 2003.
6. Rassidakis GZ, et al. *Clin Cancer Res* 9:1121-1128, 2003.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-JAB1 (N-term)	4D11D8	37-1400
Rabbit anti-JAB1 (N-term)	ZMD.12	34-3000
Rabbit anti-JAB1 (Mid)	ZMD.209	34-6000
Mouse anti-p27	p27-11D11	33-2800
Mouse anti-p27	57	18-2370
Rabbit anti-p27	FP1	71-9600
Rabbit anti-phospho-p27 (Thr187)	PT-187	71-7700
Rabbit anti-phospho-p27 (Ser10)	ZMD.212	34-6300
Mouse anti-Skp2	SKP2-8D9	32-3300
Rabbit anti-Skp2	GP45	51-1900
Mouse anti-Ubiquitin	Ubi-1	13-1600
Rabbit anti-NEDD8	Z32.HJ	34-1400
Rabbit anti-ALK	ZAL4	51-3900
Rabbit anti-VEGF	Z-CVF3	18-0254
Mouse anti-VEGF	VG1	18-7328
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

*PAD: Polyclonal Antibody Designation

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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