



Qty: 100 µg/200 µl

Mouse anti-SKP1 (p19)

Catalog No. 32-3800

Lot No.

Mouse anti-SKP1 (p19)

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: 1C10F4

ISOTYPE: Mouse IgG₁

IMMUNOGEN

Recombinant human SKP1 (p19) protein.

SPECIFICITY

This antibody reacts with the human SKP1 (p19) protein. On Western blots, it identifies a band at 19 kDa.

REACTIVITY

Reactivity has been confirmed with human HeLa cervical carcinoma, Jurkat leukemia T cell, and Wi-38 lung fibroblast cell lysates.

Sample	Immuno-precipitation (native)	Western Blotting	ELISA
Human	+++	+++	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: 5-10 µg/mL

Western Blotting: 1-3 µg/mL

ELISA: 0.1 - 1.0 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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PI323800

(Rev 10/08) DCC-08-1089

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BACKGROUND

The *SKP1* gene was first identified in yeast, where it is essential for the G1/S and G2/M cell cycle transitions.¹ Its protein product, Skp1 (p19), interacts with cyclin F directly and cyclin A indirectly, and is thought to link these key regulatory proteins of the cell cycle to ubiquitin-mediated degradation by the proteolytic pathway. Skp1 is a subunit of a type of E3 ubiquitin ligase known as an SCF ligase, for its Skp1, Cul1, and F-box protein components. Within the SCF complex, Cul1 functions as the catalytic core which recruits the E2 ubiquitin-conjugating enzyme, the F-box protein provides substrate specificity for the protein to be degraded,² and Skp1 acts as an adapter protein linking the F-box protein to Cul1.³

De-regulation of SCF-dependent protein degradation has been implicated as a contributing factor in malignant transformation. The complete loss or increased proteolysis of cyclin E, β -catenin, and p27, all of which are degradation targets of specific SCF ligases, has been observed as a frequent event in cancer.³ The human SCF ligase containing Skp2 as its F-box protein (SCF^{Skp2}) degrades p27, SCF^{Trcp} targets β -catenin,⁴ and SCF^{Fbw7/hCdc4/hAgc} degrades cyclin E.

REFERENCES

1. Bai C, et al. *Cell* 86:263-274, 1996.
2. Skowyra D, et al. *Cell* 91:209-219, 1997.
3. Zheng N, et al. *Nature* 416:703-709, 2002.
4. Latres E, et al. *Oncogene* 18(4):849-854, 1999.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-SKP2	SKP2-8D9	32-3300
Mouse anti-SKP2	SKP2-2B12	32-3400
Rabbit anti-SKP2	GP45	51-1900
Rabbit anti-CUL1	ZL18	71-8700
Mouse anti-Cyclin A	E23	33-4900
Mouse anti-Ubiquitin	Ubi-1	13-1600
Mouse anti-p27	p27-11D11	33-2800
Rabbit anti-p27	FP1	71-9600
Mouse anti- β -Catenin	CAT-5H10	13-8400
Rabbit anti- β -Catenin	CAT-15	71-2700
Mouse anti-Cyclin E	HE172	32-1500
Mouse anti-Cyclin E	HE12	32-1600
Rabbit anti-Fbl3a	VL4	51-6500
Rabbit anti-Fbw1a	MA14	52-3007
Rabbit anti-Fbw1b	MB12	52-3107
Rabbit anti-Fbx4	MC9	52-3207
Rabbit anti-Fbx6	MO3	52-3407
Rabbit anti-Fbx7	M8F	51-8000
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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