Qty: 100 µg/400 µl
Rabbit anti-p45^{SKP2}
Catalog No. 51-1900
Lot No. See product label

Rabbit anti-p45^{SKP2}

FORM
This polyclonal antibody is supplied as a 400 µl aliquot at 0.25 mg/ml in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. The antibody is epitope-affinity-purified from rabbit antiserum.

POLYCLONAL ANTIBODY DESIGNATION (PAD): GP45

IMMUNOGEN
Recombinant, full-length human p45^{SKP2} protein.

SPECIFICITY
This antibody is specific for p45^{SKP2}. Cross-reactivity with related endogenous proteins has not been observed.

REACTIVITY
This antibody reacts with human p45^{SKP2}. Based on sequence homology, reactivity of this antibody in species other than human is likely but has not been tested.

SAMPLE	ELISA	Immuno-precipitation (native)	Western Blotting[3]
Human		+	+
Immunogen	+		

USAGE
Applications for this antibody include ELISA, Western blotting, immunoprecipitation, and immunodepletion. Reactivity of this antibody was confirmed by Western blotting and by immunoprecipitation using human recombinant p45^{SKP2} protein, and lysates derived from HeLa, Jurkat, and 293T cell lines.

Working concentrations for specific applications should be determined by the investigator. Optimal dilutions will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The following amounts are recommend as starting points for this product.

ELISA: 0.1-1.0µg/ml
Western Blotting[3]: 1-2 µg/ml
Immunoprecipitation: 5 µg/ IP reaction (immunodepletion reactions may require more antibody)
Immunohistochemistry[3]: 2-5 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.

BACKGROUND[(1-2)]
In yeast, proteolysis of G1 cell cycle regulators is controlled by a ubiquitin ligase formed by three subunits: Cdc53, Skp1 and one of many F-box proteins (reviewed in 1). Human Skp1 was first identified as a protein associated with Cyclin A (2). The meaning of Skp1-Cyclin A association is still understood. It was then shown that it forms a complex with human Cdc53 (Cul1) and the F box protein Skp2. It is possible that this complex plays a role in the ubiquitination of G1 regulatory proteins as its homolog does in yeast.

(cont'd)

REFERENCES

1. Pagano, M., Regulation of cell cycle regulatory proteins by the ubiquitin pathway. *FASEB J.* 11, 1067-1075 (1997).
2. Zhang, H., and Beach, D. p19Skp-1 and p45Skp-2 are essential elements of the cyclin A-Cdk2 S phase kinase. *Cell* 82, 915-925 (1995).
3. Kudo, Y., et al. High Expression of S-Phase Kinase-interacting Protein 2, Human F-box Protein Correlates with Poor Prognosis in Oral Squamous Cell Carcinomas. *Cancer Research* 6: 7044-7047 (2001).

RELATED PRODUCTS

Product	***PAD***	***Cat. No.***
Rabbit anti-p19^{SKP1}	G19	71-9700
Rabbit anti-p19^{SKP1}	PC19	71-9800
Rabbit anti-CUL1	ZL18	71-8700
Rabbit anti-CUL2	CT2	51-1800
Rabbit anti-CUL2	NCT	51-2000

Product	***Conjugate***	***Cat. No.***
Goat anti-Rabbit IgG (H+L)	Purified	81-6100
(ZyMAX™ Grade)	FITC	81-6111
	TRITC	81-6114
	Cy™3	81-6115
	Cy™5	81-6116
	HRP	81-6120
	AP	81-6122
	Biotin	81-6140
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

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Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: techsupport@invitrogen.com

PI511900 (Rev 10/08) DCC-08-1089