



Qty: 100 µg/400 µl

Rabbit anti-Cdc14A

Catalog No. 34-8100

Lot No. See product label

Rabbit anti-Cdc14A

FORM

This polyclonal antibody is supplied as a 400 µl aliquot at a concentration of 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.

PAD: ZMD.231

IMMUNOGEN

Synthetic peptide derived from the C-terminal region of the human Cdc14A protein.

SPECIFICITY

This antibody reacts with the ~80 kDa human Cdc14A protein.

REACTIVITY

Reactivity is confirmed with human HEK293 cell lysates.

Sample	Western Blotting	Immuno-fluorescence
Human	+++	+++
Mouse	ND	ND

(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.

Immunofluorescence: 1-5 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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PI348100

(Rev 10/08) DCC-08-1089

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BACKGROUND

Cdc14, also known as dual specificity phosphatase, is a protein phosphatase originally discovered in yeast that plays an important role in cell cycle regulation, including exit from mitosis¹. Throughout G1, S and G2 phases, Cdc14 is located in the nucleolus; at the beginning of anaphase, the protein is redistributed throughout the entire nucleus². In late anaphase, Cdc14 dephosphorylates Cdh1 which then activates APC (Anaphase Promoting Complex)³.

Two human orthologs of yeast Cdc14 have been identified; these are Cdc14A and Cdc14B, and they share about 80% amino acid homology in the N-termini and phosphatase domains⁴. Cdc14 has also been shown to dephosphorylate p53, suggesting that it may play a role in regulation of p53 activity.

REFERENCES

1. Morgan DO. *Nat Cell Biol* 1:E47-E53, 1999.
2. Visintin R et al. *Nature* 398:818-823, 1999.
3. Jaspersen SL et al. *Curr Biol* 9:227-236, 1999.
4. Li et al. *J Biol Chem* 275:2410-2414, 2000

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Rb anti-APC11	ZMD.08	34-2600
Rb anti-CUL-1	ZL18	71-8700
Rb anti-CUL-2	CT2	51-1800
Rb anti-CUL-2	NCT	51-2000
Rb anti-CUL-3	ZMD.04	34-2200
Rb anti-CDC34	ZMD.09	34-2700
Ms anti-MDM2	1F2	33-7100
Ms anti-p53	BP53.12	18-0129
Rb anti-ROC1C	ZMD.07	34-2500
Ms anti-Ubiquitin	Ubi-1	13-1600
Ms anti-UBC3	2E3B5	32-2000
Rb anti-UBC3	HC34	71-9900
Rb anti-UNP	CSM-11	71-8900

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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