



Qty: 100 µg/400 µl

Rabbit anti-RKIP (N-term)

For Research Use Only

Catalog No. 36-0700

Lot No. See product label

Rabbit anti-RKIP (N-term)

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.258

IMMUNOGEN

Synthetic peptide derived from the N-terminal region of human RKIP (Raf kinase inhibitor protein).

SPECIFICITY

This antibody reacts with human and mouse RKIP. In Western blots this antibody identifies a single 23 kDa band.

REACTIVITY

Reactivity has been confirmed with human HEK293 cell lysates and mouse brain homogenates. Based on amino acid sequence homology, this antibody is also expected to react with bovine and monkey RKIP.

Sample	Western Blotting	ELISA
Human	+++	ND
Mouse	+++	ND
Immunogen	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.

ELISA: 0.1-1.0 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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(Rev 10/08) DCC-08-1089

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BACKGROUND

The Ras/Raf/MEK/ERK signaling pathway conveys mitogenic and differentiation signals from the cell membrane to the nucleus, and controls the proliferation and differentiation of different cell types.¹⁻³

The Raf kinase inhibitor protein (RKIP) interacts with Raf1, MEK, and ERK both *in vitro* and *in vivo*,⁴ interfering with this signaling cascade. RKIP's mechanism of action has been identified; it inhibits the Raf/MEK/ERK pathway at the Raf-1/MEK interface, where it dissociates the Raf-1/MEK complex and acts as a competitive inhibitor of MEK phosphorylation by Raf.⁵

REFERENCES

1. Ferrell JE. *Curr Top Dev Biol* 33:1-60, 1996.
2. Morrison DK, Cutler RE. *Curr Opin Cell Biol* 9:174-179, 1997.
3. Marais R, Marshall CJ. *Cancer Surv* 27:101-125, 1996.
4. Yeung K, et al. *Nature* 401:173-177, 1999.
5. Yeung K, et al. *Mol Cell Biol* 20:3079-3085, 2000.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Rabbit anti-RKIP (C-term)	ZMD.259	36-0800
Mouse anti-MEK1	3D9	13-3500
Mouse anti-MAP Kinase (ERK1+ERK2)	ERK-7D8	13-6200
Rat anti-v-H-Ras	Y13-259	33-7200
Rabbit anti-Raf-1	Z-61	71-2600

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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