



Qty: 100µg/400 µL

Rabbit anti-PDE4B

Catalog No. 40-1400

Lot No.

Rabbit anti-PDE4B

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. This antibody is epitope-affinity purified from rabbit antiserum.

PAD: ZMD.431

IMMUNOGEN

Synthetic peptide derived from the N-terminal region of human and rat PDE4B protein.

SPECIFICITY

This antibody reacts with the human and rat PDE4B protein. On Western blots, it identifies a single band at ~83 kDa. Bands of unknown origin may be observed at ~160 and ~260 kDa.

REACTIVITY

Reactivities have been confirmed with NG96 human neuroblastoma lysate and rat brain homogenate.

Sample	Western Blotting	Immunoprecipitation (Native)
Human	+++	ND
Rat	+++	+++

(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: 7 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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BACKGROUND

Of the 11 families of phosphodiesterase (PDEs) identified, PDE4, PDE7, and PDE8 are specific for cAMP.¹ However, isoforms of the PDE4 family often account for most of the cAMP-hydrolyzing activity of a cell.² Four genes (PDE4A, B, C and D) make up the PDE4 family.

One or more subtype variants of PDE4B are ubiquitously present in all mammalian cells. In the CNS, PDE4B subtype variants are expressed in varying ratios.³ Peripheral tissues exhibit differential expression of PDE4B1, B2 and B4 variants.

REFERENCES

1. Conti M, et al. *Prog Nucleic Acid Res Mol Biol* 63: 1-38, 1999.
2. Conti M, et al. *J Biol Chem* 278: 5493-6, 2003.
3. Iona S, et al. *Mol Pharmacol* 53: 23-32, 1998.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

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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