

Datasheet for ABIN2786603
anti-PDE4B antibody (Middle Region)[Go to Product page](#)[1 Image](#)[1 Publication](#)

Overview

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| Quantity: | 100 µL |
| Target: | PDE4B |
| Binding Specificity: | Middle Region |
| Reactivity: | Human, Mouse, Rat, Guinea Pig, Horse, Cow, Dog, Pig, Rabbit |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PDE4B antibody is un-conjugated |
| Application: | Western Blotting (WB) |

Product Details

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| Immunogen: | The immunogen is a synthetic peptide directed towards the middle region of human PDE4B |
| Sequence: | QDILDTLEDN RNWYQSMIPQ SPSPLDEQN RDCQGLMEKF QFELTLDEED |
| Predicted Reactivity: | Cow: 100%, Dog: 100%, Guinea Pig: 83%, Horse: 100%, Human: 100%, Mouse: 86%, Pig: 100%, Rabbit: 93%, Rat: 93% |
| Characteristics: | This is a rabbit polyclonal antibody against PDE4B. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification: | Affinity Purified |

Target Details

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| Target: | PDE4B |
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Target Details

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| Alternative Name: | PDE4B (PDE4B Products) |
| Background: | <p>The specific function of this protein remains unknown. This gene is a member of the type IV, cyclic AMP (cAMP)-specific, cyclic nucleotide phosphodiesterase (PDE) family. Cyclic nucleotides are important second messengers that regulate and mediate a number of cellular responses to extracellular signals, such as hormones, light, and neurotransmitters. The cyclic nucleotide phosphodiesterases (PDEs) regulate the cellular concentrations of cyclic nucleotides and thereby play a role in signal transduction. This gene encodes a protein that specifically hydrolyzes cAMP. Altered activity of this protein has been associated with schizophrenia and bipolar affective disorder. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.</p> <p>Alias Symbols: DKFZp686F2182, DPDE4, MGC126529, PDE4B5, PDEIVB</p> <p>Protein Interaction Partner: MAGEA11, RCBTB2, APOA1, ALB, PAFAH1B1, UBC, DISC1, PRKACA,</p> <p>Protein Size: 564</p> |
| Molecular Weight: | 64 kDa |
| Gene ID: | 5142 |
| NCBI Accession: | NM_001037339 , NP_001032416 |
| UniProt: | Q5TEK5 |
| Pathways: | Cellular Response to Molecule of Bacterial Origin , cAMP Metabolic Process , Myometrial Relaxation and Contraction |

Application Details

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| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment: | Antigen size: 564 AA |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Concentration: | Lot specific |
| Buffer: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |
| Preservative: | Sodium azide |

Handling

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| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Publications

| | |
|-------------------|--|
| Product cited in: | Ewing, Chu, Elisma, Li, Taylor, Climie, McBroom-Cerajewski, Robinson, OConnor, Li, Taylor, Dharsee, Ho, Heilbut, Moore, Zhang, Ornatsky, Bukhman, Ethier, Sheng, Vasilescu, Abu-Farha, Lambert, Duewel et al.: "Large-scale mapping of human protein-protein interactions by mass spectrometry. ..." in: Molecular systems biology , Vol. 3, pp. 89, (2007) (PubMed). |
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Validation report #103654 for Western Blotting (WB)



Western Blotting

Image 1. WB Suggested Anti-PDE4B Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:1562500

Positive Control: Human heart