



# Human PDE4D blocking peptide (CDBP2230)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| <b>Product Overview</b>    | Blocking/Immunizing peptide for anti-PDE4D antibody                                                                                                                                                                                                                                                                                                                                                              |
| <b>Antigen Description</b> | This gene encodes one of four mammalian counterparts to the fruit fly 'dunce' gene. The encoded protein has 3',5'-cyclic-AMP phosphodiesterase activity and degrades cAMP, which acts as a signal transduction molecule in multiple cell types. This gene uses different promoters to generate multiple alternatively spliced transcript variants that encode functional proteins.[provided by RefSeq, Sep 2009] |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Conjugate</b>           | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>        | Apuri, BL, ELISA                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Format</b>              | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Size</b>                | 100 µg                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Preservative</b>        | None                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>             | Shipped at ambient temperature, store at -20°C.                                                                                                                                                                                                                                                                                                                                                                  |

## GENE INFORMATION

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| <b>Gene Name</b>       | <a href="#">PDE4D phosphodiesterase 4D, cAMP-specific [ Homo sapiens (human) ]</a>                                                                                                                                                           |
| <b>Official Symbol</b> | PDE4D                                                                                                                                                                                                                                        |
| <b>Synonyms</b>        | PDE4D; phosphodiesterase 4D, cAMP-specific; DPDE3; PDE43; STRK1; ACRDYS2; HSPDE4D; PDE4DN2; cAMP-specific 3,5-cyclic phosphodiesterase 4D; cAMP-specific phosphodiesterase PDE4D6; phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 |

dunce homolog, Drosophila);

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| Entrez Gene ID      | <a href="#">5144</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| mRNA Refseq         | <a href="#">NM_001104631.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protein Refseq      | <a href="#">NP_001098101.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| UniProt ID          | Q08499                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Chromosome Location | 5q12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pathway             | DARPP-32 events, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Morphine addiction, organism-specific biosystem; Morphine addiction, conserved biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Opioid Signalling, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolis |
| Function            | 3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-nucleotide phosphodiesterase activity; ATPase binding; beta-2 adrenergic receptor binding; cAMP binding; drug binding; enzyme binding; ion channel binding; io                                                                                                                                                                                                                                                      |