

For Research Use Only

PDE4D Recombinant monoclonal antibody

Catalog Number: 86745-1-RR



Basic Information

Catalog Number:

86745-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3588

GenBank Accession Number:

BC036319

GeneID (NCBI):

5144

UNIPROT ID:

Q08499

Full Name:

phosphodiesterase 4D, cAMP-specific
(phosphodiesterase E3 dunce
homolog, Drosophila)

Calculated MW:

809 aa, 91 kDa

Observed MW:

91 kDa

Purification Method:

Protein A purification

CloneNo.:

251427D3

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse pancreas tissue, K-562 cells, rat brain
tissue

Background Information

PDE4D (cAMP-specific 3',5'-cyclic phosphodiesterase 4D) is also named as DPDE3, PDE43, and belongs to the cyclic nucleotide phosphodiesterase family and PDE4 subfamily. PDE4D subtype may be of particular importance as an antidepressant target in that it is regulated by repeated treatment with both norepinephrine and serotonin reuptake inhibitors as well as by the PDE4 inhibitor rolipram (PMID:16730340). It has some isoforms, and all the PDE4D isoforms are expressed in healthy adult human hippocampus and in hippocampus from a patient with advanced Alzheimer's disease (PMID:17353396).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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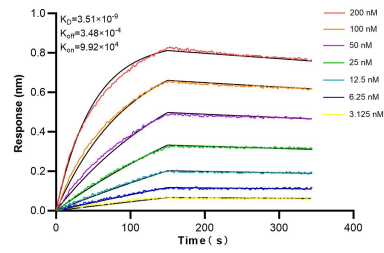
W: ptgcn.com

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Selected Validation Data



Mouse pancreas tissue was subjected to SDS PAGE followed by western blot with 86745-1-RR (PDE4D antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86745-1-RR against Human PDE4D were performed. The affinity constant is 3.51 nM.