Data Sheet (Cat.No.TMAB-10112)

Anti-PDE4D Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Dog,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 90 kDa. Actual: 90 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Brain (Mouse) Lysate at 30 μg Primary: Anti-PDE4D (TMAB-10112) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 90 kD Observed band size: 90 kD 2. Blank control: RSC96 (blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice. Isotype Control Antibody: Rabbit IgG (orange); Secondary Antibody: Goat anti-rabbit IgG-FITC (white blue), Dilution: 1: 200 in 1 X PBS containing 0.5% BSA; Primary Antibody Dilution: 1 μg in 100 μgL 1X PBS containing 0.5% BSA (green). 3. Sample: Brain (Mouse) Lysate at 30 μg Primary: Anti-PDE4D (TMAB-10112) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 90 kD Observed band size: 100 kD 4. Sample: Cerebrum (Mouse) Lysate at 40 μg Primary: Anti-PDE4D (TMAB-10112) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 90 kD Observed band size: 90 kD
Application:	WB,FCM
Recommended	WB: 1:500-2000; FCM: 1μg/Test

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human PDE4D
Antigen Species:	Human
Gene ID:	5144
Uniprot ID:	Q08499

Research Background

Cyclic AMP-dependent phosphodiesterase type D (PDE4D) family is comprise of 5 variants (PDE4D1, D2, D3, D4 and D5). One or more PDE4D subtype variants are ubiquitously present in all mammalian cells. In CNS all five PDE4D subtype variants are expressed in varying ratios and their activity is regulated in tandem with GPCRs stimulation. Peripheral tissues also exhibit differential expression of PDE4D variants. PDE4D1/D2 mRNA levels rise in response to an increase in cAMP. Short term regulation of PDE4D variants involved PKA, MAP kinases and Erk2 phosphorylation that results in rapid change in their enzymatic activities. Other regulatory mechanism involved protein protein interactions with cytoskeletal scaffolding proteins.

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