

Datasheet for ABIN7354588

anti-PDE4D antibody (AA 466-709) (DyLight 550)



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Overview

Quantity:	100 µg
Target:	PDE4D
Binding Specificity:	AA 466-709
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDE4D antibody is conjugated to DyLight 550
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Human PDE4D DyLight® 550 conjugated Antibody
Immunogen:	E. coli-derived human PDE4D recombinant protein (Position: H466-Q709).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Human PDE4D DyLight® 550 conjugated Antibody -Dyl550. Tested in Flow Cytometry applications. This antibody reacts with Human.
Purification:	Immunogen affinity purified.

Target Details

Target:	PDE4D
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Target Details

Alternative Name:	PDE4D (PDE4D Products)
Background:	Synonyms: cAMP-specific 3',5'-cyclic phosphodiesterase 4D, DPDE3, PDE43, PDE4D, DPDE3 Tissue Specificity: Expressed in colonic epithelial cells (at protein level). Widespread, most abundant in skeletal muscle. Isoform 6 is detected in brain. Isoform 8 is detected in brain, placenta, lung and kidney. Isoform 7 is detected in heart and skeletal muscle. Background: cAMP-specific 3',5'-cyclic phosphodiesterase 4D is an enzyme that in humans is encoded by the PDE4D gene. 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.
Molecular Weight:	39 kDa
Gene ID:	5144
UniProt:	Q08499
Pathways:	Cellular Response to Molecule of Bacterial Origin , cAMP Metabolic Process , Myometrial Relaxation and Contraction , Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Application Notes:	Flow Cytometry (Fixed), 1-3 $\mu\text{g}/1 \times 10^6$ cells ¹ . "Entrez Gene: PDE4D phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, Drosophila)". 2. Michot C, Le Goff C, Goldenberg A, Abhyankar A, Klein C, Kinning E, Guerrot AM, Flahaut P, Duncombe A, Baujat G, Lyonnet S, Thalassinos C, Nitschke P, Casanova JL, Le Merrer M, Munnich A, Cormier-Daire V (Apr 2012). "Exome sequencing identifies PDE4D mutations as another cause of acrodysostosis". American Journal of Human Genetics. 90 (4): 740-5.
Comment:	Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Each vial contains 50 % glycerol, 0.9 % NaCl, 0.2 % Na ₂ HPO ₄ , 0.02 % Sodium azide.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.