

## ARG10804 anti-PDE4D antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes PDE4D
Tested Reactivity	Hu, Ms, Rat, Rb
Tested Application	Confocal, Dot, ELISA, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PDE4D
Species	Human
Immunogen	Synthetic peptide around 20 aa (N-terminus) of PDE4D variant.
Conjugation	Un-conjugated
Alternate Names	EC 3.1.4.53; STRK1; DPDE3; PDE43; ACRDYS2; PDE4DN2; cAMP-specific 3',5'-cyclic phosphodiesterase 4D; HSPDE4D

### Application Instructions

Application table	Application	Dilution
	Confocal	1:200
	Dot	1:10000
	ELISA	1:10000
	ICC/IF	1:200
	IHC-P	1:200
	IP	1:150
	WB	1:500
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 105 kDa	

### Properties

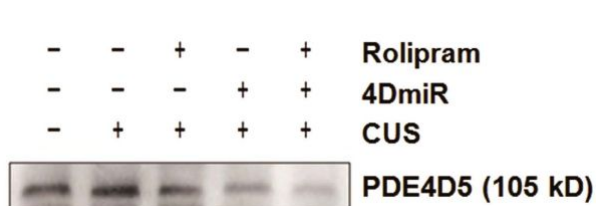
Form	Liquid
Purification	Affinity purified.
Buffer	Tris-Glycine Buffer (pH 7.4 - 7.8), Hepes, 0.02% Sodium azide, 30% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide

Stabilizer	30% Glycerol and 0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	PDE4D
Gene Full Name	phosphodiesterase 4D, cAMP-specific
Background	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]
Function	Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. [UniProt]
Calculated Mw	91 kDa
PTM	Long isoforms that share a conserved PKA phosphorylation site in the N-terminus are activated by PKA through phosphorylation (By similarity). Isoform 3 and isoform 7 are activated by phosphorylation (in vitro), but not isoform 6. Isoform N3 and isoform 12 are phosphorylated on Ser-49, Ser-51, Ser-55 and Ser-59. Sumoylation of long isoforms by PIAS4 augments their activation by PKA phosphorylation and represses their inhibition by ERK phosphorylation.

## Images



ARG10804 anti-PDE4D antibody WB image

Western blot: Mouse prefrontal cortical tissue with different treatments. The blots were stained with ARG10804 anti-PDE4D antibody.