

## ARG10799 anti-PDE4 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes PDE4
Tested Reactivity	Hu, Ms, Rat, Chk, Mk
Tested Application	Confocal, Dot, ELISA, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PDE4
Species	Human
Immunogen	Synthetic peptide with a sequence common to most PDE4 subtypes: PDE4A, PDE4D, PDE4B.
Conjugation	Un-conjugated
Alternate Names	DPDE2; cAMP-specific 3',5'-cyclic phosphodiesterase 4A; PDE4; PDE46; EC 3.1.4.53

### Application Instructions

Application table	Application	Dilution
	Confocal	1:200
	Dot	1:10000
	ELISA	1:10000
	ICC/IF	1:200
	IHC-P	1:200
	IP	1:200
	WB	1:500 - 1:1000
	Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

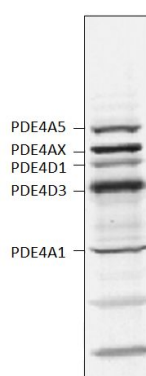
Form	Liquid
Purification	Affinity purified.
Buffer	Tris-Glycine Buffer (pH 7.4 - 7.8), Hepes, 0.02% Sodium azide, 30% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	30% Glycerol and 0.5% BSA
Concentration	0.62 mg/ml

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	PDE4A
Gene Full Name	phosphodiesterase 4A, cAMP-specific
Background	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE4 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jul 2011]
Function	Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. [UniProt]
Calculated Mw	98 kDa
PTM	Phosphorylation by MAPKAPK2 its activation through PKA phosphorylation (By similarity). Phosphorylated at Ser-686 and Ser-688 when expressed in <i>S.frugiperda</i> cells. Isoform 2 and isoform 7 are activated by phosphorylation at Ser-119 and Ser-123 respectively by PKA. Proteolytically cleaved by caspase-3.

## Images



ARG10799 anti-PDE4 antibody WB image

Western blot: Rat cortical membranes stained with ARG10799 anti-PDE4 antibody at 1:500 dilution.