

# Product datasheet

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# ARG10803 anti-PDE4D antibody

Package: 50 μg Store at: -20°C

## **Summary**

Product Description Rabbit Polyclonal antibody recognizes PDE4D

Tested Reactivity Hu, Ms, Rat

Tested Application Confocal, Dot, ELISA, ICC/IF, IHC-P, IP, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name PDE4D

Species Human

Immunogen Synthetic cyclic peptide around the C-terminus of PDE4D protein.

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	Assay-dependent
	IHC-P	1:50
	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.	

## **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

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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

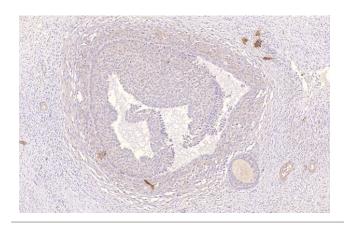
through phosphorylation (By similarity). Isoform 3 and isoform 7 are activated by phosphorylation (in vitro), but not isoform 6. Isoform N3 and isoform 12 are phosphorylated on Ser-49, Ser-51, Ser-55 and

Ser-59.

Sumoylation of long isoforms by PIAS4 augments their activation by PKA phosphorylation and represses

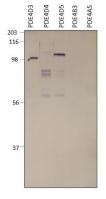
their inhibition by ERK phosphorylation.

#### **Images**



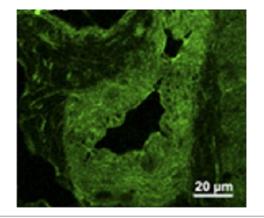
#### ARG10803 anti-PDE4D antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human ovarian medulla tissue stained with ARG10803 anti-PDE4D antibody at 1:50 dilution.



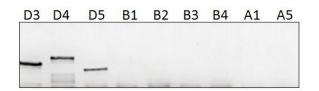
#### ARG10803 anti-PDE4D antibody WB image

Western blot: Recombinant PDE4 protein variants stained with ARG10803 anti-PDE4D antibody at 1:500 dilution.



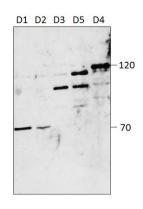
#### ARG10803 anti-PDE4D antibody Confocal image

Confocal laser microscopy: Abdominal skeletal muscle stained with ARG10803 anti-PDE4D antibody at 1:200 dilution.



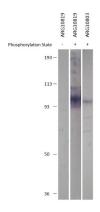
#### ARG10803 anti-PDE4D antibody WB image

Western blot: PDE4D, PDE4B and PDE4A variants stained with ARG10803 anti-PDE4D antibody at 1:1000 dilution.



#### ARG10803 anti-PDE4D antibody WB image

Western blot: Recombinant PDE4D variants (PDE4D1, PDE4D2, PDE4D3, PDE4D5, and PDE4D4) stained with ARG10803 anti-PDE4D antibody at 1:500 dilution. Apparent MW for D1 - D5 are 68, 70, 95, 119, and 105 kDa respectively.



#### ARG10803 anti-PDE4D antibody WB image

Western blot: non-phosphorylated and phosphorylated PDE4D protein stained with ARG10819 anti-PDE4D phospho (Ser190) antibody and ARG10803 anti-PDE4D antibody at 1:500 dilution.