

ARG10819 anti-PDE4D phospho (Ser190) antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PDE4D phospho (Ser190)
Tested Reactivity	Hu, Ms, Rat
Tested Application	Dot, ELISA, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PDE4D
Species	Human
Immunogen	Synthetic peptide selective for PDE4D PKA site taken within aa. 50-100 from Human PDE4D. Derived around the PKA phosphorylation site of Ser190: R-E-Sp-F-L.
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
	Dot	1:10000
	ELISA	1:10000
	IHC-P	1:50 - 1:100
	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

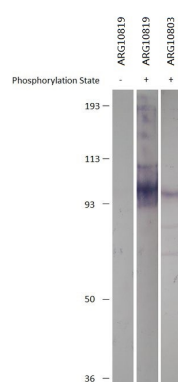
Form	Liquid
Purification	Affinity purified.
Buffer	Tris-Glycine Buffer (pH 7.4 - 7.8), Hepes, 0.02% Sodium azide, 30% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	30% Glycerol and 0.5% BSA
Concentration	0.5 mg/ml

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



ARG10819 anti-PDE4D phospho (Ser190) 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.