

ARG10820 anti-Phospho-PDE5A antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PDE5A
Tested Reactivity	Hu, Ms, Rat, Bov, Pig
Tested Application	Confocal, Dot, ELISA, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PDE5A
Species	Human
Immunogen	Phosphorylated peptide taken within aa. 120-170 from Human PDE5A.
Conjugation	Un-conjugated
Alternate Names	cGMP-specific 3',5'-cyclic phosphodiesterase; CN5A; CGB-PDE; cGMP-binding cGMP-specific phosphodiesterase; PDE5; EC 3.1.4.35

Application Instructions

Application table	Application	Dilution
	Confocal	1:100
	Dot	1:10000
	ELISA	1:10000
	ICC/IF	1:100
	IHC-P	1:100
	IP	1:200
	WB	1:500
	Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

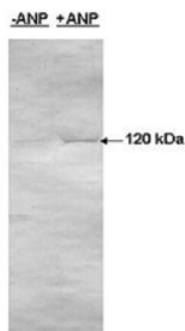
Form	Liquid
Purification	Affinity purified.
Buffer	Tris-Glycine Buffer (pH 7.4 - 7.8), Hepes, 0.02% Sodium azide, 30% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	30% Glycerol and 0.5% BSA

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	PDE5A
Gene Full Name	phosphodiesterase 5A, cGMP-specific
Background	This gene encodes a cGMP-binding, cGMP-specific phosphodiesterase, a member of the cyclic nucleotide phosphodiesterase family. This phosphodiesterase specifically hydrolyzes cGMP to 5'-GMP. It is involved in the regulation of intracellular concentrations of cyclic nucleotides and is important for smooth muscle relaxation in the cardiovascular system. Alternative splicing of this gene results in three transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]
Function	Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase catalyzes the specific hydrolysis of cGMP to 5'-GMP. Specifically regulates nitric-oxide-generated cGMP. [UniProt]
Calculated Mw	100 kDa
PTM	Phosphorylation is regulated by binding of cGMP to the two allosteric sites (By similarity). Phosphorylation by PRKG1 leads to its activation.

Images



ARG10820 anti-Phospho-PDE5A antibody WB image

Western blot: Human PDE5A-GFP overexpressing cells untreated or treated with ANP. The blots were stained with ARG10820 anti-Phospho-PDE5A antibody at 1:500 dilution.