

ARG10812 anti-PDE9A antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PDE9A
Tested Reactivity	Hu, Ms, Rat
Tested Application	Confocal, Dot, ELISA, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PDE9A
Species	Human
Immunogen	Synthetic cyclic peptide common to all PDE9A variants.
Conjugation	Un-conjugated
Alternate Names	High affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A; EC 3.1.4.35; HSPDE9A2

Application Instructions

Application table	Application	Dilution
	Confocal	1:100
	Dot	1:100
	ELISA	1:100
	ICC/IF	1:100
	IHC-P	1:100
	IP	1:250
	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

PDE9A

Gene Full Name

phosphodiesterase 9A

Background

The protein encoded by this gene catalyzes the hydrolysis of cAMP and cGMP to their corresponding monophosphates. The encoded protein plays a role in signal transduction by regulating the intracellular concentration of these cyclic nucleotides. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

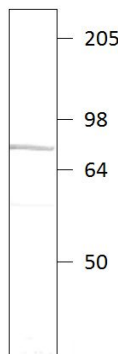
Function

Specifically hydrolyzes the second messenger cGMP, which is a key regulator of many important physiological processes. Highly specific: compared to other members of the cyclic nucleotide phosphodiesterase family, has the highest affinity and selectivity for cGMP. Specifically regulates natriuretic-peptide-dependent cGMP signaling in heart, acting as a regulator of cardiac hypertrophy in myocytes and muscle. Does not regulate nitric oxide-dependent cGMP in heart. Additional experiments are required to confirm whether its ability to hydrolyze natriuretic-peptide-dependent cGMP is specific to heart or is a general feature of the protein (Probable). In brain, involved in cognitive function, such as learning and long-term memory (By similarity). [UniProt]

Calculated Mw

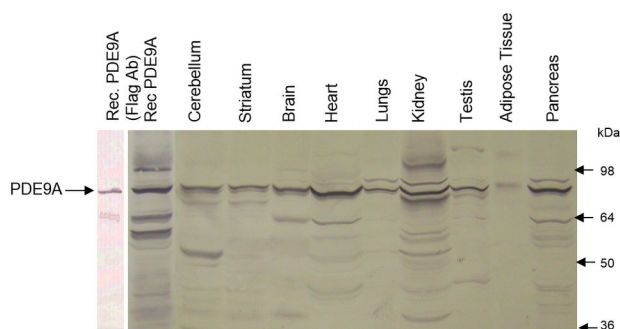
68 kDa

Images



ARG10812 anti-PDE9A antibody WB image

Western blot: Recombinant PDE9A protein stained with ARG10812 anti-PDE9A antibody at 1:500 dilution.



ARG10812 anti-PDE9A antibody WB image

Western blot: PDE9A on SDS-PAGE showing tissue distribution of PDE9A. The blots were stained with ARG10812 anti-PDE9A antibody at 1:1000 dilution.