

Datasheet for ABIN7155179  
**anti-PDE9A antibody (AA 426-533)**[Go to Product page](#)

## 3 Images

## Overview

Quantity:	100 µg
Target:	PDE9A
Binding Specificity:	AA 426-533
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDE9A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant Human High affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A protein (426-533AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	PDE9A
Alternative Name:	PDE9A ( <a href="#">PDE9A Products</a> )
Background:	Background: Specifically hydrolyzes the second messenger cGMP, which is a key regulator of

## Target Details

many important physiological processes. Highly specific: compared to other members of the cyclic nucleotide phosphodiesterase family, has the highest affinity and selectivity for cGMP (PubMed:9624146, PubMed:18757755, PubMed:21483814). 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 (PubMed:25799991). 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).

Aliases: 5"-cyclic phosphodiesterase 9A antibody, cGMP specific 3' 5' cyclic phosphodiesterase type 9 antibody, FLJ90181 antibody, High affinity cGMP-specific 3" antibody, High-affinity cGMP-specific 3'5'-cyclic phosphodiesterase 9A antibody, HSPDE9A2 antibody, OTTHUMP00000109399 antibody, PDE 9A antibody, Pde9a antibody, PDE9A\_HUMAN antibody, Phosphodiesterase 9A antibody, phosphodiesterase PDE9A21 antibody

UniProt: [O76083](#)

## Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:500-1:1000, IF:1:200-1:500,

Restrictions: For Research Use only

## Handling

Format: Liquid

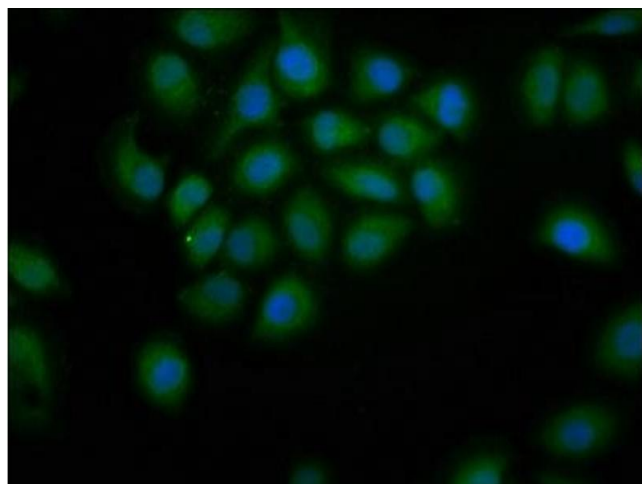
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

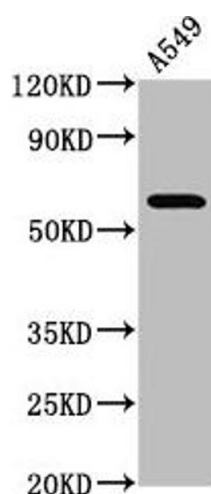
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



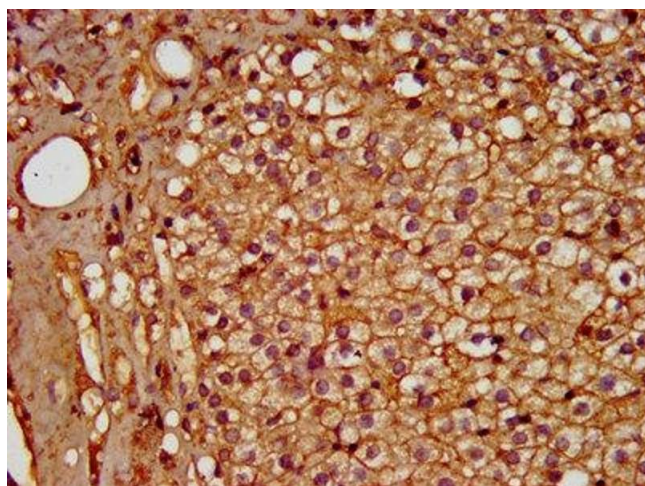
### Immunofluorescence

**Image 1.** Immunofluorescence staining of A549 cells with ABIN7155179 at 1:200, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



### Western Blotting

**Image 2.** Western Blot Positive WB detected in: A549 whole cell lysate All lanes: PDE9A antibody at 3.9 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 69, 62, 55, 63, 58, 46, 59, 51, 45, 54, 65, 66, 57 kDa Observed band size: 69 kDa



### Immunohistochemistry

**Image 3.** IHC image of ABIN7155179 diluted at 1:600 and staining in paraffin-embedded human adrenal gland tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.