

Rabbit anti-Human PDE9A Polyclonal Antibody | anti-PDE9A antibody

PDE9A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA234443	Rabbit	Human	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

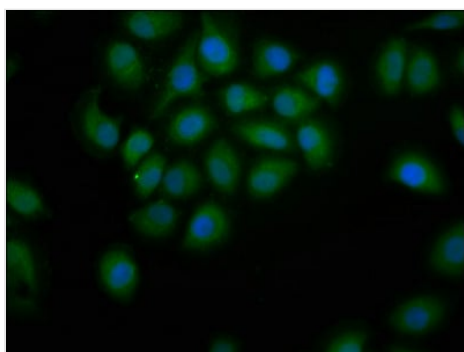
PRODUCT SYNONYMS

PDE9A; Polyclonal Antibody; PDE9A Antibody; High affinity cGMP-specific 3'; 5'-cyclic phosphodiesterase 9A; anti-PDE9A antibody

PRODUCT SPECIFICATIONS

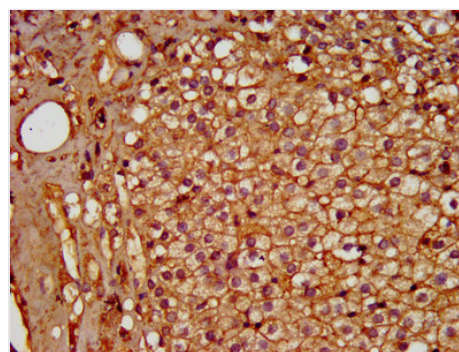
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	533
Applicable Applications for anti-PDE9A antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant Human High affinity cGMP-specific 3', 5'-cyclic phosphodiesterase 9A protein (426-533AA)
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



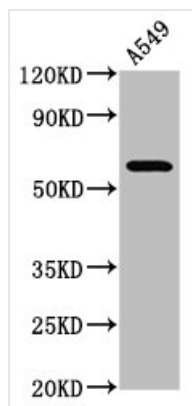
IHC (Immunohistochemistry)

Immunofluorescence staining of A549 cells with AAA234443 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 degree C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



IHC (Immunohistochemistry)

IHC image of AAA234443 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 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-PDE9A antibody	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 (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).
Product Categories/Family for anti-PDE9A antibody	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	48762718
NCBI GeneID	5152
NCBI Accession #	NP_001001567.1
NCBI GenBank Nucleotide #	NM_001001567.1
UniProt Accession #	O76083; O75490; O75491; O95225; Q53Y40; Q5QD39; Q86SF7; Q86SI6; B2RBI5; B4DFI5; D3DSJ8; D3DSJ9
Molecular Weight	56,554 Da
NCBI Official Full Name	high affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A isoform b
NCBI Official Synonym Full Names	phosphodiesterase 9A
NCBI Official Symbol	PDE9A
NCBI Official Synonym Symbols	HSPDE9A2
NCBI Protein Information	high affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A
UniProt Protein Name	High affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A
UniProt Gene Name	PDE9A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.