

Rabbit PDE1C Polyclonal Antibody | anti-PDE1C antibody

PDE1C Antibody

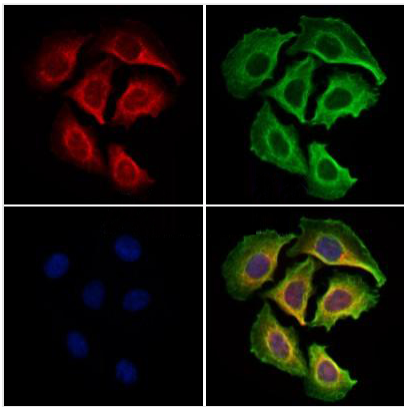
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31248	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Horse(100%), Rabbit(88%), Dog(100%)	ELISA

PRODUCT SYNONYMS

PDE1C; Polyclonal Antibody; PDE1C Antibody; 5"-cyclic nucleotide phosphodiesterase 1C; Calcium/calmodulin dependent 3'5' cyclic nucleotide phosphodiesterase 1C; Calcium/calmodulin-dependent 3"; Cam PDE 1C; Cam-PDE 1C; hCam 3; hCam-3; HCAM3; HSPDE1C1A; Human 3'5' cyclic nucleotide Phosphodiesterase; PDE 1C; Pde1c; PDE1C_HUMAN; Phosphodiesterase 1C; Phosphodiesterase 1C calmodulin dependent; Phosphodiesterase 1C calmodulin dependent 70kDa; anti-PDE1C antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Horse(100%), Rabbit(88%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	PDE1C Antibody detects endogenous levels of total PDE1C.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PDE1C antibody	ELISA
Application Notes	IF: 1:100-1:500 ICC: 1:100-1:500 WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human PDE1C, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



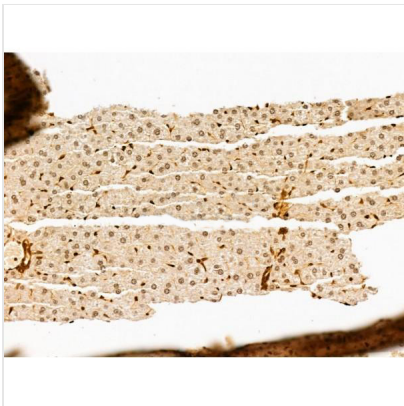
IF (Immunofluorescence)

AAA31248 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA31248 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



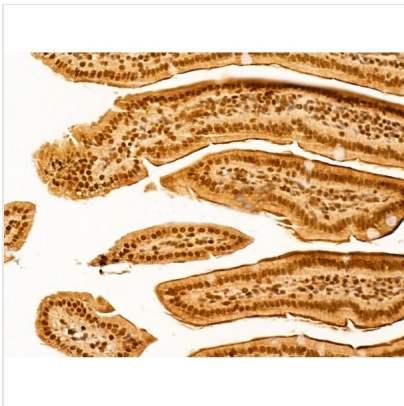
IHC (Immunohistochemistry-Paraffin)

AAA31248 at 1/100 staining Human colorectal cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31248 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31248 at 1/100 staining Mouse colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31248 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31248 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PDE1C antibody	Function: Calmodulin-dependent cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:8557689, PubMed:29860631). Has a high affinity for both cAMP and cGMP (PubMed:8557689). Modulates the amplitude and duration of the cAMP signal in sensory cilia in response to odorant stimulation, hence contributing to the generation of action potentials. Regulates smooth muscle cell proliferation. Regulates the stability of growth factor receptors, including PDGFRB (Probable). Tissue Specificity: Isoform PDE1C2 is present in the heart and brain and, at lower levels in the lung, liver, kidney and skeletal muscle (PubMed:8557689). Isoform PDE1C1 is expressed in the heart and brain and, at lower levels in lung (PubMed:8557689). Also expressed at low levels in uterus and testis (PubMed:8557689). Subunit Structure: Homodimer. Similarity: Belongs to the cyclic nucleotide phosphodiesterase family. PDE1 subfamily.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	578813517
NCBI GeneID	5137
UniProt Accession #	Q14123
Molecular Weight	Observed Molecular Weight: (Observed)80kD. Predicted Molecular Weight: (Calculated)81kDa.
NCBI Official Synonym Full Names	phosphodiesterase 1C
NCBI Official Symbol	PDE1C
NCBI Official Synonym Symbols	Hcam3; DFNA74; hCam-3; cam-PDE 1C
NCBI Protein Information	calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1C
UniProt Protein Name	Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1C
UniProt Gene Name	PDE1C
UniProt Synonym Gene Names	Cam-PDE 1C
UniProt Entry Name	PDE1C_HUMAN

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.