

Mouse PDE2A Monoclonal Antibody | anti-PDE2A antibody

PDE2A antibody

CATALOG # AAA106889	HOST Mouse	APPLICATIONS Western Blot, Flow Cytometry, Functional Assay
-------------------------------	----------------------	---

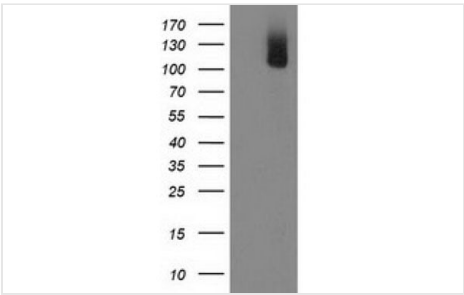
PRODUCT SYNONYMS

PDE2A; Monoclonal Antibody; PDE2A antibody; Monoclonal PDE2A; Anti-PDE2A; cGMP-stimulated cyclic nucleotide phosphodiesterase; cGMP-stimulated PDE; cGS-PDE; cyclic GMP-stimulated PDE; cyclic GMP-stimulated phosphodiesterase; pde2; pde2a; pde2a1; ; PDEA 2; PDEA-2; anti-PDE2A antibody

PRODUCT SPECIFICATIONS

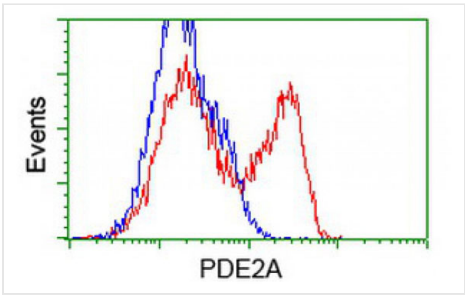
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	4D2
Purity/Purification	PDE2A antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	941
Applicable Applications for anti-PDE2A antibody	WB (Western Blot), FCM/FACS (Flow Cytometry)
Biological Significance	Phosphodiesterases (PDEs) are a family of related phosphohydrolases that selectively catalyze the hydrolysis of 3' cyclic phosphate bonds in adenosine and/or guanine 3', 5' cyclic monophosphate (cAMP and/or cGMP). They regulate the cellular levels, localization and duration of action of these second messengers by controlling the rate of their degradation. PDE1, 2, 3, 10 and 11 degrade both cyclic nucleotides. These enzymes are involved in many signal transduction pathways.
Cross-Reactivity	Human
Immunogen	PDE2A antibody was raised in mouse using a full length recombinant protein of human PDE2A (NP_002590) produced in HEK293T cells, as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant PDE2A protein (Right) or empty vector (Left) detected with PDE2A antibody



FCM/FACS (Flow Cytometry)

Flow Cytometric analysis of HEK293T cells transfected with either recombinant PDE2A protein (red) or empty vector (blue) stained using PDE2A antibody

ADDITIONAL INFORMATION

Related Product Information for anti-PDE2A antibody	Mouse monoclonal PDE2A antibody
Product Categories/Family for anti-PDE2A antibody	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505657
NCBI GeneID	5138
NCBI Accession #	NP_002590
NCBI GenBank Nucleotide #	NM_002599.4
UniProt Accession #	O00408; Q5J791; Q5J792; Q5J793; Q6ZMR1; B2R646; B3KRV5; E9PGI1; F6W5Z0
Molecular Weight	87,235 Da
NCBI Official Full Name	cGMP-dependent 3',5'-cyclic phosphodiesterase isoform PDE2A3
NCBI Official Synonym Full Names	phosphodiesterase 2A, cGMP-stimulated
NCBI Official Symbol	PDE2A
NCBI Official Synonym Symbols	PDE2A1; PED2A4; cGSPDE; CGS-PDE
NCBI Protein Information	cGMP-dependent 3',5'-cyclic phosphodiesterase
UniProt Protein Name	cGMP-dependent 3',5'-cyclic phosphodiesterase
UniProt Gene Name	PDE2A
UniProt Synonym Gene Names	CGS-PDE; cGSPDE
UniProt Entry Name	PDE2A_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.