

## Mouse PDE2A Monoclonal Antibody | anti-PDE2A antibody

PDE2A antibody

|                               |                      |                                                                                           |
|-------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA106902</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|-------------------------------------------------------------------------------------------|

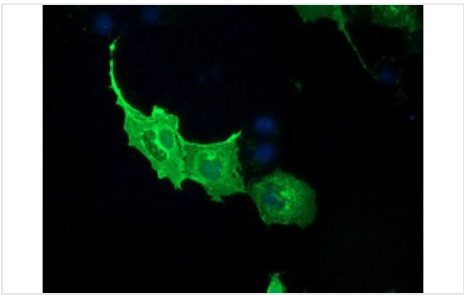
### PRODUCT SYNONYMS

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

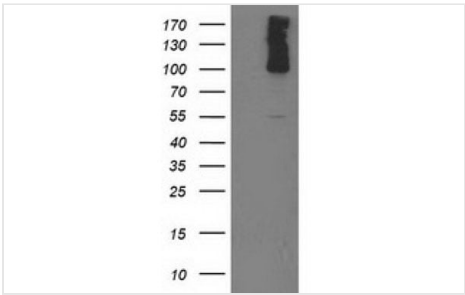
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Isotype                                         | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Clone Number                                    | 4D10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Biological Significance                         | Phosphodiesterases (PDEs) are a family of related phosphohydrolyases 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.                                                                                                                                                                                                                                                                                                                                                        |

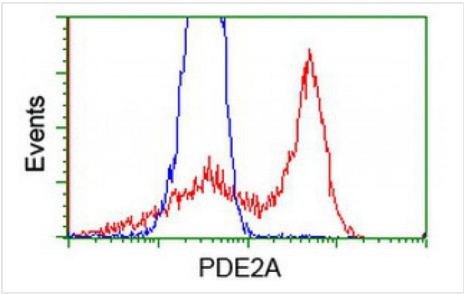
IMAGES



**IF (Immunofluorescence)**  
Immunofluorescent staining of COS7 cells transiently transfected with recombinant PDE2A protein using PDE2A antibody



**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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/pde2a-antibody-clone-4d10-western-blot-immunofluorescence-flow-cytometry-elisa/106902>