

PDE12 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP10288b

Specification

PDE12 Antibody (C-term) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW Antigen Region WB, FC,E <u>O6L8O7</u> <u>O6AXO5, O3TIU4, O08DF7, NP_808881.3</u> Human Bovine, Mouse, Rat Rabbit Polyclonal Rabbit IgG 67352 362-390

PDE12 Antibody (C-term) - Additional Information

Gene ID 201626

Other Names 2', 5'-phosphodiesterase 12, 2'-PDE, 2-PDE, 314-, Mitochondrial deadenylase, PDE12

Target/Specificity This PDE12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 362-390 amino acids from the C-terminal region of human PDE12.

Dilution WB~~1:1000 FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PDE12 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PDE12 Antibody (C-term) - Protein Information

Name PDE12



Function Enzyme that cleaves 2',5'-phosphodiester bond linking adenosines of the 5'-triphosphorylated oligoadenylates, triphosphorylated oligoadenylates referred as 2-5A modulates the 2-5A system. Degrades triphosphorylated 2-5A to produce AMP and ATP (PubMed:<u>26055709</u>). Also cleaves 3',5'-phosphodiester bond of oligoadenylates (PubMed:<u>21666256</u>, PubMed:<u>26055709</u>, PubMed:<u>30389976</u>). Plays a role as a negative regulator of the 2-5A system that is one of the major pathways for antiviral and antitumor functions induced by interferons (IFNs). Suppression of this enzyme increases cellular 2-5A levels and decreases viral replication in cultured small-airway epithelial cells and Hela cells (PubMed:<u>26055709</u>).

Cellular Location Mitochondrion matrix

Tissue Location Ubiquitous..

PDE12 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

PDE12 Antibody (C-term) - Images



PDE12 Antibody (C-term) (Cat. #AP10288b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the PDE12 antibody detected the PDE12 protein (arrow).





PDE12 Antibody (C-term) (Cat. #AP10288b) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PDE12 Antibody (C-term) - References

Kohno, T., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 66 (PT 5), 520-522 (2010) : Kubota, K., et al. J. Biol. Chem. 279(36):37832-37841(2004)