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PDE6D (m): 293T Lysate: sc-122458

BACKGROUND

Phosphodiesterases (PDEs), also designated cyclic nucleotide phosphodiesterases, are important for the downregulation of the intracellular level of the second messenger cyclic adenosine monophosphate (cAMP) by hydrolyzing cAMP to 5'AMP. The PDE family contains proteins that serve tissue-specific roles in the regulation of lipolysis, glycogenolysis, myocardial contractility and smooth muscle relaxation. PDE6D, also designated phosphodiesterase 6D cGMP-specific rod δ , is a retina-specific oligomer composed of two catalytic chains (α and β), an inhibitory chain (γ) and the δ chain. It interacts with RPGR, ARL2 and ARL3, and contains 150 amino acids, which are unusually well conserved, with only a few conservative substitutions in human, bovine, mouse and rat PDE6D. The PDE6D protein contains two N-linked glycosylation sites.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Pde6d* (mouse) mapping to 1 D.

PRODUCT

PDE6D (m): 293T Lysate represents a lysate of mouse PDE6D transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

PDE6D (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PDE6D antibodies. Recommended use: 10-20 μ l per lane.

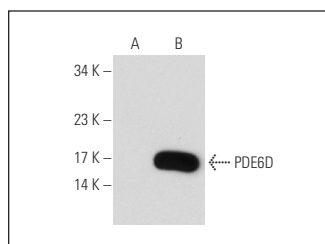
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PDE6D (E-7): sc-166854 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse PDE6D expression in PDE6D transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

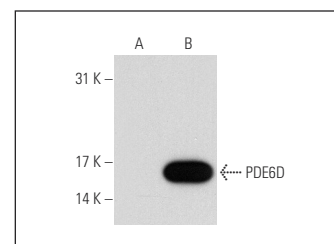
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



PDE6D (E-7): sc-166854. Western blot analysis of PDE6D expression in non-transfected: sc-117752 (A) and mouse PDE6D transfected: sc-122458 (B) 293T whole cell lysates.



PDE6D (E-8): sc-166836. Western blot analysis of PDE6D expression in non-transfected: sc-117752 (A) and mouse PDE6D transfected: sc-122458 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.