

Product Information

Anti-Phosphodiesterase 6 β

(Anti-PDE 6 β)

Developed in Rabbit, Affinity Isolated Antibody

Product Number **P 8871**

Product Description

Anti-Phosphodiesterase 6 β (Anti-PDE 6 β) is developed in rabbit using synthetic peptides H(20)QYFG(K/R)KLSPENVAGAC(36) as immunogen. The peptides correspond to amino acid residues 20-36 from mouse and bovine PDE 6 β . The antibody is affinity purified.

Anti-PDE 6 β specifically recognizes a ~90 kDa protein representing PDE 6 β from mouse retinal extracts by immunoblotting.

PDE 6 is the effector enzyme in the G protein-mediated signal transduction cascade in the visual system. There are five different subunits consisting of rod and cone specific catalytic subunits: α' (Cone), α (Rod), and β (Rod), the inhibitory subunit γ , and subunit δ of unknown function (which likely interacts with many other proteins besides the PDE 6 family). The catalytic core of the PDE 6 system is comprised of α'/α' homodimers in the cone and α/β heterodimers in the rod. The C-terminus of both the catalytic and inhibitory subunits is modified by methylation, myristylation and prenylation which have been shown to be critical for proper complex assembly and membrane association.

Reagents

The antibody is provided as 100 μ g of epitope affinity purified IgG in PBS containing 1 mg/ml BSA and 0.05% sodium azide as a preservative.

Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazardous and safe handling.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

The recommended working dilution is 2 μ g/ml for immunoblotting.

Note: In order to obtain best results and assay sensitivities of different techniques and preparations, we recommend determining optimal working dilutions by titration test.

References

1. He, F., et al., Multiple zinc binding sites in retinal rod cGMP phosphodiesterase, PDE 6 α/β , *J. Biol. Chem.*, **275**, 20572-20577 (2000).
2. Granovsky, A.E., and Artemyev, N.O., Identification of the γ subunit-interacting residues on photoreceptor cGMP phosphodiesterase, PDE 6 α' , *J. Biol. Chem.*, **275**, 41258-41262 (2000).

MCT,PHC 12/04-2

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.