Datasheet for ABIN7600894

anti-PDE6B antibody (AA 25-237)

Go to Product page

Overview

Quantity:	100 µg
Target:	PDE6B
Binding Specificity:	AA 25-237
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDE6B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-PDE6 beta/PDE6B Antibody Picoband®
Immunogen:	E.coli-derived human PDE6 beta/PDE6B recombinant protein (Position: K25-Q237).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PDE6 beta/PDE6B Antibody Picoband® (ABIN7600894). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PDE6B
Alternative Name:	PDE6B (PDE6B Products)
Background:	Synonyms: Dermatopontin, Tyrosine-rich acidic matrix protein, TRAMP, DPT Tissue Specificity: Expressed in fibroblasts, heart, skeletal muscle, brain and pancreas. Expressed at an intermediate level in lung and kidney, and at a low level in liver and placenta. Expressed at a lower level in fibroblasts from hypertrophic scar lesional skin and in fibroblasts from patients with systemic sclerosis than in normal skin fibroblasts. Background: Photon absorption triggers a signaling cascade in rod photoreceptors that activates cGMP phosphodiesterase (PDE), resulting in the rapid hydrolysis of cGMP, closure of cGMP-gated cation channels, and hyperpolarization of the cell. PDE is a peripheral membrane heterotrimeric enzyme made up of alpha, beta, and gamma subunits. This gene encodes the beta subunit. Mutations in this gene result in retinitis pigmentosa and autosomal dominant congenital stationary night blindness. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	98 kDa
Gene ID:	5158
UniProt:	P35913
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling, Phototransduction

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human Immunocytochemistry/Immunofluorescence, 4 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Hmani-Aifa, M., Benzina, Z., Zulfiqar, F., Dhouib, H., Shahzadi, A., Ghorbel, A., Rebai, A., Soderkvist, P., Riazuddin, S., Kimberling, W. J., Ayadi, H. Identification of two new mutations in the GPR98 and the PDE6B genes segregating in a Tunisian family. Europ. J. Hum. Genet. 17: 474-482, 2009. 2. Tsang, S. H., Woodruff, M. L., Jun, L., Mahajan, V., Yamashita, C. K., Pedersen, R., Lin, C.-S., Goff, S. P., Rosenberg, T., Larsen, M., Farber, D. B., Nusinowitz, S. Transgenic mice carrying the H258N mutation in the gene encoding the beta-subunit of phosphodiesterase-6 (PDE6B) provide a model for human congenital stationary night blindness. Hum. Mutat. 28: 243-254, 2007. 3. Zhao, L., Zabel, M. K., Wang, X., Ma, W., Shah, P., Fariss, R. N., Qian, H., Parkhurst,

Application Details

	C. N., Gan, W.-B., Wong, W. T. Microglial phagocytosis of living photoreceptors contributes to inherited retinal degeneration. EMBO Molec. Med. 7: 1179-1197, 2015.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.