Datasheet for ABIN7599710

anti-PDE6A antibody (AA 11-237)

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Overview

Quantity:	100 µg
Target:	PDE6A
Binding Specificity:	AA 11-237
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDE6A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-PDE6 alpha/PDE6A Antibody Picoband®
Immunogen:	E.coli-derived human PDE6 alpha/PDE6A recombinant protein (Position: K11-R237).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PDE6 alpha/PDE6A Antibody Picoband® (ABIN7599710). 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:	PDE6A
Alternative Name:	PDE6A (PDE6A Products)
Background:	Synonyms: Protein SOX-15, Protein SOX-12, Protein SOX-20, SOX15, SOX12, SOX20, SOX26, SOX27 Tissue Specificity: Widely expressed in fetal and adult tissues examined, highest level found in fetal spinal cord and adult brain and testis. Background: This gene encodes the cyclic-GMP (cGMP)-specific phosphodiesterase 6A alpha subunit, expressed in cells of the retinal rod outer segment. The phosphodiesterase 6 holoenzyme is a heterotrimer composed of an alpha, beta, and two gamma subunits. cGMP is an important regulator of rod cell membrane current, and its dynamic concentration is established by phosphodiesterase 6A cGMP hydrolysis and guanylate cyclase cGMP synthesis. The protein is a subunit of a key phototransduction enzyme and participates in processes of transmission and amplification of the visual signal. Mutations in this gene have been identified as one cause of autosomal recessive retinitis pigmentosa.
Molecular Weight:	100 kDa
Gene ID:	5145
UniProt:	P16499
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, Rat Immunocytochemistry/Immunofluorescence, 4 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Corton, M., Blanco, M. J., Torres, M., Sanchez-Salorio, M., Carracedo, A., Brion, M. Identification of a novel mutation in the human PDE6A gene in autosomal recessive retinitis pigmentosa: homology with the nmf28/nmf28 mice model. (Letter) Clin. Genet. 78: 495-498, 2010. 2. Khan, S. Y., Ali, S., Naeem, M. A., Khan, S. N., Husnain, T., Butt, N. H., Qazi, Z. A., Akram, J., Riazuddin, S., Ayyagari, R., Hejtmancik, J. F., Riazuddin, S. A. Splice-site mutations identified in PDE6A responsible for retinitis pigmentosa in consanguineous Pakistani families. Molec. Vision 21: 871-882, 2015. 3. Tuntivanich, N., Pittler, S. J., Fischer, A. J., Omar, G., Kiupel, M., Weber, A., Yao, S., Steibel, J. P., Khan, N. W., Petersen-Jones, S. M. Characterization of a canine

Application Details

	model of autosomal recessive retinitis pigmentosa due to a PDE6A mutation. Invest. Ophthal. Vis. Sci. 50: 801-813, 2009.
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.