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Anti-PDE6G Antibody

Catalog # AP54113

Product Information

Application	WB, IF/IC
Primary Accession	P18545
Reactivity	Human, Mouse, Rat, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	9643

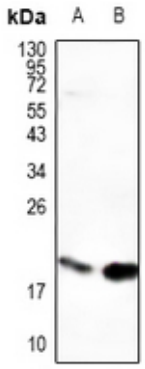
Additional Information

Gene ID	5148
Other Names	PDEG; Retinal rod rhodopsin-sensitive cGMP 3'5'-cyclic phosphodiesterase subunit gamma; GMP-PDE gamma
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human PDE6G. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

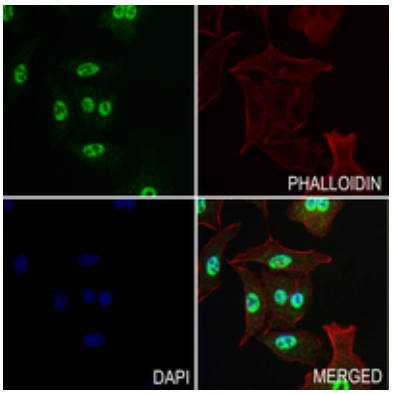
Protein Information

Name	PDE6G (HGNC:8789)
Synonyms	PDEG
Function	Inhibitory gamma subunit of the rod-specific cGMP phosphodiesterase (PDE6) complex, which hydrolyzes 3',5'-cyclic GMP in the phototransduction cascade. The PDE6 holoenzyme consists of two catalytic subunits (PDE6A and PDE6B) and two inhibitory gamma subunits. Light-activated GNAT1 relieves gamma subunit-mediated inhibition, enabling the catalytic subunits to hydrolyze cGMP and thereby mediate visual signal transduction and amplification.
Cellular Location	Cell projection, cilium, photoreceptor outer segment {ECO:0000250|UniProtKB:P04972}

Images



Western blot analysis of PDE6G expression in mouse eyes (A), rat eyes (B) whole cell lysates. (Predicted band size: 9 kD; Observed band size: 18 kD)



Immunofluorescent analysis of PDE6G staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.