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Anti-PGD2 Receptor Antibody

Rabbit polyclonal antibody to PGD2 Receptor
Catalog # AP60620

Product Information

Application	WB, IF/IC
Primary Accession	Q13258
Other Accession	P70263
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40271

Additional Information

Gene ID	5729
Other Names	Prostaglandin D2 receptor; PGD receptor; PGD2 receptor; Prostanoid DP receptor
Target/Specificity	Recognizes endogenous levels of PGD2 Receptor protein.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

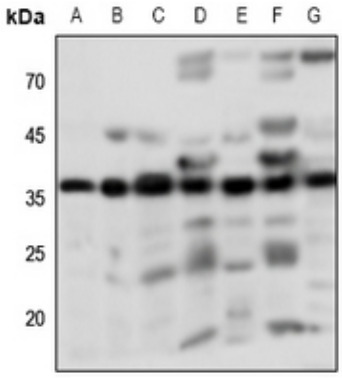
Protein Information

Name	PTGDR
Function	Receptor for prostaglandin D2 (PGD2). The activity of this receptor is mainly mediated by G(s) proteins that stimulate adenylate cyclase, resulting in an elevation of intracellular cAMP. A mobilization of calcium is also observed, but without formation of inositol 1,4,5-trisphosphate (By similarity). Involved in PLA2G3- dependent maturation of mast cells. PLA2G3 is secreted by immature mast cells and acts on nearby fibroblasts upstream to PTDGS to synthesize PGD2, which in turn promotes mast cell maturation and degranulation via PTGDR (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in retinal choroid, ciliary epithelium, longitudinal and circular ciliary muscles, iris, small intestine and platelet membranes.

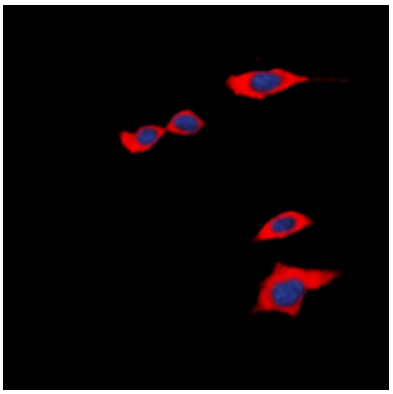
Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PGD2 Receptor. The exact sequence is proprietary.

Images



Western blot analysis of PGD2 Receptor expression in HEK293T (A), Hela (B), HepG2 (C), mouse lung (D), mouse brain (E), mouse kidney (F), rat kidney (G) whole cell lysates.



Immunofluorescent analysis of PGD2 Receptor staining in HEK293T 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 DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).