

PD2R Polyclonal Antibody

Catalog No :	YT3624
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	PD2R
Fields :	>>Neuroactive ligand-receptor interaction
Gene Name :	PTGDR
Protein Name :	Prostaglandin D2 receptor
Human Gene Id :	5729
Human Swiss Prot No :	Q13258
Mouse Swiss Prot No :	P70263
Immunogen :	The antiserum was produced against synthesized peptide derived from human PTGDR. AA range:263-312
Specificity :	PD2R Polyclonal Antibody detects endogenous levels of PD2R protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 40kD

Cell Pathway : Neuroactive ligand-receptor interaction;

Background : This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein is reported to be a receptor for prostaglandin D2, which is a mediator of allergic inflammation and allergic airway inflammation in asthma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013],

Function : disease:Genetic variations in PTGDR are associated with susceptibility to asthma-related traits type 1 (ASRT1) [MIM:607277]. Asthma-related traits include clinical symptoms of asthma, such as coughing, wheezing and dyspnea.,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.,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Expressed in retinal choroid, ciliary epithelium, longitudinal and circular ciliary muscles, iris, small intestine and platelet membranes.,

Subcellular Location : Cell membrane ; Multi-pass membrane protein .

Expression : Expressed in retinal choroid, ciliary epithelium, longitudinal and circular ciliary muscles, iris, small intestine and platelet membranes.

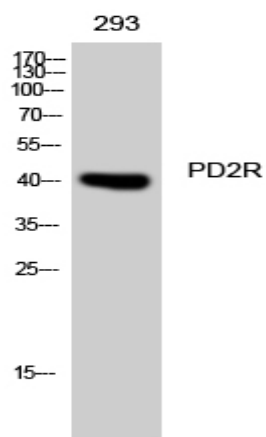
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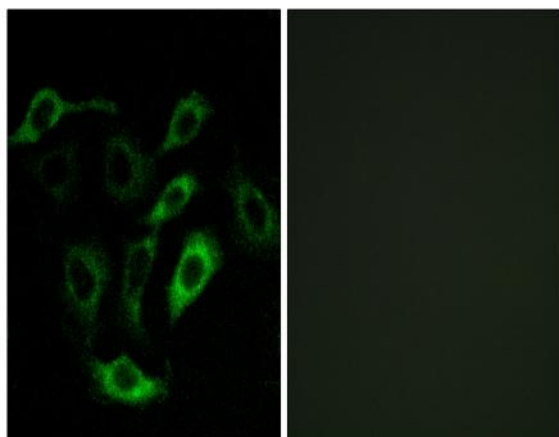
Host : Rabbit

Modifications : Unmodified

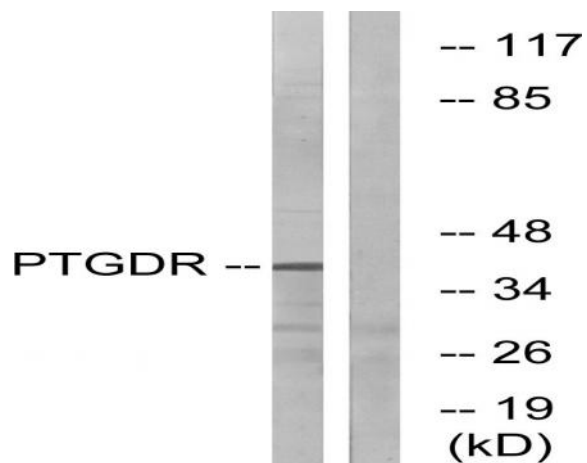
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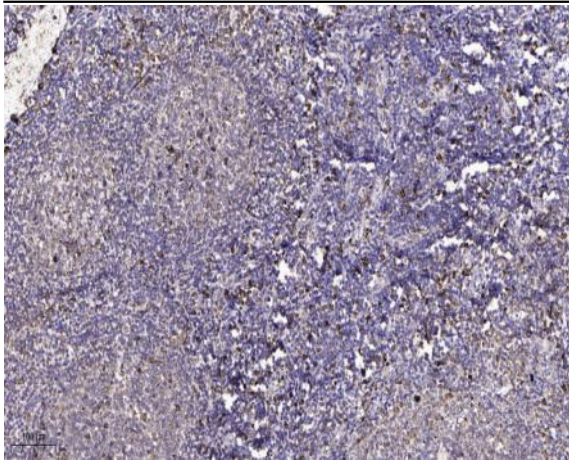
Western Blot analysis of 293 cells using PD2R Polyclonal Antibody diluted at 1:1000



Immunofluorescence analysis of A549 cells, using PTGDR Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2 cells, using PTGDR Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).