

DESCRIPTION

Species Reactivity	Human
Specificity	Detects Prostaglandin D2 receptor immunogen in Direct ELISA.
Source	Monoclonal Mouse IgG ₁ Clone # 1052528
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide within amino acids 50-150 of the Prostaglandin D2 receptor protein sequences Accession # Q13258
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PTGDR is a G protein-coupled receptor that has been shown to function as a prostanoid DP receptor. PTGDR is expressed in retinal choroid, ciliary epithelium, longitudinal and circular ciliary muscles, iris, small intestine and platelet membranes. The activity of this receptor is mainly mediated by G-S proteins that stimulate adenylate cyclase resulting in an elevation of intracellular cAMP and Ca²⁺. Knockout studies in mice suggest that the ligand of PTGDR, prostaglandin D2 (PGD₂), functions as a mast cell-derived mediator to trigger asthmatic responses. Genetic variations in PTGDR are associated with susceptibility to asthma-related traits type 1 (ASRT1). Asthma-related traits include clinical symptoms of asthma, such as coughing, wheezing and dyspnea.

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