Human PTGER3
Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 606609

Catalog Number: FAB10243N

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PTGER3 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 606609
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human PTGER3 Met1-Arg390 Accession # P43115
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.*

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10^6 cells	HEK293 Human Cell Line Transfected with Human PTGER3 and eGFP

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

Human Prostaglandin EP3 receptor, also known as EP3 or PTGER3, is a 53kDa prostaglandin receptor for prostaglandin E2 (PGE2) encoded by the PTGER3 gene. PTGER3 is a G protein-coupled receptor (GPCR) of the rhodopsin-like receptor family. Along with several other receptor subtypes (EP1, EP2, and EP4), it mediates the diverse biological effects of Prostaglandin E2 (PGE2). PGE2 has been implicated in numerous processes, including immune response modulation, male erectile function, induction of labor, cervical cancer, control of blood pressure, and asthma. Various isoforms are produced by alternative splicing. Prostaglandin E2 Receptor EP3 expression has been documented throughout the periphery, especially kidney. ESTs have been isolated primarily from kidney libraries.

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