

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PTGER1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 1014918
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide containing human PTGER1 Accession # P34995
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

PTGER1 is a one of four EP₁ receptors for PGE₂ which is mediated by G(q) proteins. PTGER1 may play a role as an important modulator of renal functions. It has also been detected in mast cells, pulmonary veins, keratinocytes, myometrium and colon smooth muscle. EP₁ expression has also frequently been seen in human breast cancers. Nuclear expression of EP₁ correlates with good prognosis markers like node negative status and PR expression. Animal model studies have implicated EP₁ in various physiological and pathological responses however expression in humans appears to be more limited. EP₁ receptor antagonists have been studied clinically primarily to treat hyperalgesia.

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