

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human PTGER1 in direct ELISAs.                                                                                                                                                                                                                                      |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 1014918                                                                                                                                                                                                                          |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Synthetic peptide containing human PTGER1<br>Accession # P34995                                                                                                                                                                                                             |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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 EP<sub>1</sub> receptors for PGE<sub>2</sub> 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. EP<sub>1</sub> expression has also frequently been seen in human breast cancers. Nuclear expression of EP<sub>1</sub> correlates with good prognosis markers like node negative status and PR expression. Animal model studies have implicated EP<sub>1</sub> in various physiological and pathological responses however expression in humans appears to be more limited. EP<sub>1</sub> receptor antagonists have been studied clinically primarily to treat hyperalgesia.

## PRODUCT SPECIFIC NOTICES

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