

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PTGER1 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 998412
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

Prostaglandin E2 Receptor 1/ PTGER1/EP1, a member of the G protein-coupled receptor family, is one of four receptors for Prostaglandin E2 (PGE2). Expression is highest in kidney and spleen, with very low expression in most other tissues. Stimulation of angiogenesis in primate ovulatory follicles by luteinizing hormone has been shown to be mediated by PGE2 through PTGER1 and PTGER2 receptors. In epidermis, E2 plays a role in keratinocyte differentiation. Expression and function of EP1 in carcinomas has been studied. For example, cytoplasmic and nuclear localization of EP1 in breast cancer has been reported in association with prognostic markers. And activation of EP1 mediated by COX2 causes VEGFC upregulation in lung adenocarcinomas.

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