

DESCRIPTION

Species Reactivity	Human/Rat
Specificity	Detects human and rat PGD2 Synthase/PTGDS in direct ELISA and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 997303
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human PGD2 Synthase/PTGDS Met1-Gln190 Accession # P41222
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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
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-H2 D-isomerase or PGD2 synthase (PTGDS) is an enzyme that catalyzes the conversion of Prostaglandin H2 (PGH2) to Prostaglandin D2 (PGD2), a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation. Prostaglandin D2 synthase is used clinically as a diagnostic marker for Cerebrospinal fluid rhinorrhea, important in the assessment of head trauma severity. It has been also proposed that the urinary and serum levels of PTGDS may be also a marker of renal damage in diabetes mellitus and hypertension.

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