

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat PGD2 Synthase/PTGDS in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat PGD2 Synthase/PTGDS Gln25-Glu189 Accession # P22057
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

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

PGD2 Synthase (prostaglandin D2 synthase; also PG-H2 D-isomerase) is a 26 kDa, monomeric member of the lipocalin family of proteins. It is expressed by neurons and astrocytes, retinal pigment epithelium and Sertoli cells. It catalyzes the conversion of PGH₂ to PGD₂, thereby influencing sleep and body temperature. It also transports retinoic acid. The rat PGD2 precursor is 189 amino acids (aa) in length. It contains a signal sequence (aa 1-24) plus a lipocalin region that serves both as a catalytic site and hydrophobic molecule transporter (aa 40-187). PGD2 is both intracellular and secreted. When secreted, PGD2 is called β-Trace. One splice variant is likely intracellular and shows an 11 aa substitution for the first 52 amino acids. Over aa 25-189, rat PGD2 shares 72% and 88% aa identity with human and mouse PGD2, respectively.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.