Prostaglandin D Synthase (hematopoietic-type; human) Monoclonal Antibody (Clone 2A5)

**Item No. 10004345**

Contents: This vial contains 100 μg purified IgG in 100 μl PBS, pH 7.2, containing 50% glycerol, 0.5 mg/ml BSA, and 0.02% sodium azide.

Synonyms: H-PGD Synthase; H-PGDS

Host: Mouse, clone 2A5, isotype 2b

Antigen: Recombinant human H-PGD synthase

Cross-reactivity: (+) Human and mouse H-PGD synthase; other species not tested

Stability: ≥6 months at -20°C

Applications: The recommended starting dilution for western blotting is 1:1,000 (1 μg/ml) for a 1 hour incubation at room temperature. Overnight incubations at 4°C with greater dilutions can also produce optimal results. The recommended starting dilution for immunohistochemistry is 1:1,000-1:5000 (1-2 μg/ml).

Prostaglandin D synthase (PGD synthase) catalyzes the isomerization of PGH₂ to produce PGD₂. PGD₂ induces sleep, regulates nociception, inhibits platelet aggregation and acts as an allergic mediator. Two distinct types of PGD synthase have been identified, namely the lipocalin-type enzyme (β-trace) and the hematopoietic enzyme.²,⁴ Lipocalin-type PGD synthase is localized in the central nervous system and male genital organs of various mammals and the human heart. This enzyme has been identified as β-trace, which is a major protein in human cerebrospinal fluid.³,⁵ Hematopoietic PGD synthase is widely distributed in the peripheral tissues and is localized in the antigen-presenting cells, mast cells, and megakaryocytes.² This enzyme, which requires glutathione for activity, belongs to the sigma-class of Glutathione-S-Transferases and is approximately 23 kDa in size.³,⁴

References

Related Products
Prostaglandin D Synthase (lipocalin-type) Polyclonal Antibody - Item No. 10004345
Prostaglandin D Synthase (hematopoietic-type) Polyclonal Antibody - Item No. 10004348
Prostaglandin D Synthase (hematopoietic-type; murine) Polyclonal Antibody - Item No. 160003
Prostaglandin D Synthase (hematopoietic-type; human) Monoclonal Antibody - Item No. 10004337
Goat Anti-Mouse IgG HRP - Item No. 10004302

**WARNING:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**MATERIAL SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent to your institution, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent to your institution. Cayman Chemical makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman Chemical warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence. This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer's exclusive remedy and Cayman's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, replacement, at no cost to Buyer, of all material that does not meet our specifications. Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman Chemical warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence. This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer's exclusive remedy and Cayman's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, replacement, at no cost to Buyer, of all material that does not meet our specifications.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.