Overview and Properties

Contents: This vial contains 100 µg of lyophilized protein A-purified antibody.
Synonyms: L-PGDS, Lipocalin-PGDS
Immunogen: Mouse recombinant L-PGDS
Species Reactivity: (+) Human and mouse; other species not tested
Uniprot No.: O09114
Form: Solid
Storage: -20°C (as supplied)
Stability: ≥1 year
Storage Buffer: TBS, pH 7.4, when reconstituted in 500 µl double distilled water
Host: Rabbit
Applications: Immunohistochemistry (IHC) and Western blot (WB); the recommended starting dilution is 1:500 and 1:200, respectively. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Image

Lane 1: His-tagged recombinant mouse H-PGDS (0.05 µg)
Lane 2: GST-tagged recombinant mouse L-PGDS (0.01 µg)
Lane 3: GST-tagged recombinant mouse L-PGDS (0.05 µg)
Lane 4: Mouse brain homogenate 1,000 x g supernatant (60 µg)
**PRODUCT INFORMATION**

**Description**

Prostaglandin D synthase (PGDS) catalyzes the isomerization of PGH$_2$ to produce PGD$_2$. PGD$_2$ induces sleep, regulates nociception, inhibits platelet aggregation, and acts as an allergenic mediator. Two distinct types of PGDS have been identified, namely the lipocalin type enzyme (β-trace) and the hematopoietic enzyme.\(^1\,^2\) Lipocalin-type PGDS (L-PGDS) is localized in the central nervous system, genital organs of various mammals, and the human heart.\(^1\,^3\,^5\) Patients with chronic renal failure and hypertension exhibit elevated amounts of L-PGDS in serum and urine.\(^6\) The L-PGDS has been identified as β-trace, which is a major protein in the human cerebrospinal fluid.\(^2\,^7\) Human L-PGDS is a 190 amino acid protein and can be detected at 24-26 kDa by immunoblotting.

**References**