PRODUCT INFORMATION

Prostaglandin I Synthase Polyclonal Antibody
Item No. 160640

Overview and Properties

Contents: This vial contains 500 µl of peptide affinity-purified polyclonal antibody.
Synonyms: PGIS, PGI Synthase, Prostacyclin Synthase
Immunogen: Peptide from an internal region of bovine PGIS
Species Reactivity: (+) Bovine, ovine and human PGIS; (-) rat PGIS
Uniprot No.: Q29626
Form: Liquid
Storage: -20°C (as supplied)
Stability: As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly
Storage Buffer: TBS, pH 7.4, with 50% glycerol, 0.1% BSA, and 0.02% sodium azide
Host: Rabbit
Isotype: IgG
Applications: Western blot; the recommended starting dilution 1:200. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Description

Prostaglandin I synthase (PGIS) catalyzes the isomerization of PGH₂ to PGI₂. PGI₂ (prostacyclin) is a potent vasodilator and inhibitor of platelet aggregation. PGIS is a membrane-bound hemoprotein localized primarily in endothelial cells. The cloned bovine and human enzymes contain 500 amino acids and a calculated molecular mass of 56,629 and 57,103, respectively. Northern blot analysis reveals that the mRNA for PGIS is expressed in a wide variety of human tissues and is particularly abundant in ovary, heart, skeletal muscle, lung, and prostate.

References