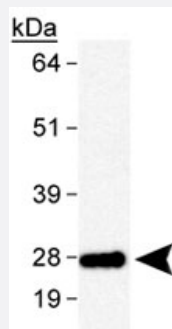


PTGDS polyclonal antibody

Catalog # PAB12054 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of PTGDS in human brain lysates with PTGDS polyclonal antibody at 0.5 and 2.0 ug/mL (Cat # PAB12054).

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant PTGDS.
Immunogen	Recombinant protein corresponding to amino acids 1-50 of human PTGDS.
Host	Rabbit
Reactivity	Bovine, Cat, Horse, Human, Mouse, Pig, Primates, Rabbit, Rat
Specificity	The epitope recognized by this antibody maps to region within residue 1-50 of human PTGDS. [Swiss-Prot# P41222]
Form	Liquid
Recommend Usage	Western Blot (2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (30% glycerol, 0.09% sodium azide)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of PTGDS in human brain lysates with PTGDS polyclonal antibody at 0.5 and 2.0 ug/mL (Cat # PAB12054).

Gene Info — PTGDS

Entrez GeneID [5730](#)

Protein Accession# [P41222](#)

Gene Name PTGDS

Gene Alias LPGDS, PDS, PGD2, PGDS, PGDS2

Gene Description prostaglandin D2 synthase 21kDa (brain)

Omim ID [176803](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a glutathione-independent prostaglandin D synthase that catalyzes the conversion of prostaglandin H2 (PGH2) to prostaglandin D2 (PGD2). PGD2 functions as a neuromodulator as well as a trophic factor in the central nervous system. PGD2 is also involved in smooth muscle contraction/relaxation and is a potent inhibitor of platelet aggregation. This gene is preferentially expressed in brain. Studies with transgenic mice overexpressing this gene suggest that this gene may be also involved in the regulation of non-rapid eye movement sleep. [provided by RefSeq]

Other Designations OTTHUMP00000022638|PGD2 synthase|beta-trace protein|glutathione-independent PGD synthase|lipocalin-type prostaglandin D synthase|prostaglandin D synthase|prostaglandin D2 synthase (21kD, brain)|prostaglandin H2 D-isomerase|prostaglandin-H2 D-isomerase

Publication Reference

- [Prostaglandin D2 synthase/GPR44: a signaling axis in PNS myelination.](#)

Trimarco A, Forese MG, Alfieri V, Lucente A, Brambilla P, Dina G, Pieragostino D, Sacchetta P, Urade Y, Boizet-Bonhoure B, Boneschi FM, Quattrini A, Taveggia C.

Nature Neuroscience 2014 Dec; 17(12):1682.

Application: WB-Tr, WB-Ti, Mouse, Rat, Schwann cells, DRG neurons

- [Lipocalin-type prostaglandin D synthase/beta-trace is a major amyloid beta-chaperone in human cerebrospinal fluid.](#)

Kanekiyo T, Ban T, Aritake K, Huang ZL, Qu WM, Okazaki I, Mohri I, Murayama S, Ozono K, Taniike M, Goto Y, Urade Y.
PNAS 2007 Apr; 104(15):6412.

Application: IF, IHC-P, Mouse, Frontal cortex from a patient with Alzheimer's disease , Mouse cerebral cortex

Pathway

- [Arachidonic acid metabolism](#)
- [Metabolic pathways](#)

Disease

- [Arteriosclerosis](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Chronic Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Periodontitis](#)
- [Schizophrenia](#)