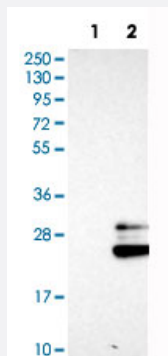


PTGDS polyclonal antibody

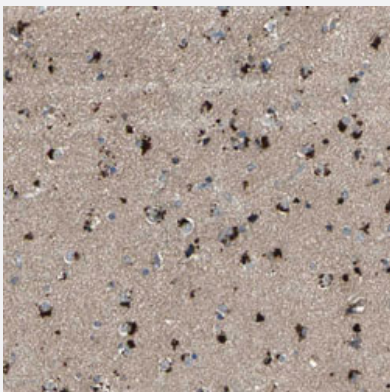
Catalog # PAB31353 Size 100 uL

Applications



Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: negative control (vector only transfected HEK293T cell lysate) and Lane 2: over-expression lysate (co-expressed with a C-terminal myc-DDK tag in mammalian HEK293T cells) with PTGDS polyclonal antibody (Cat # PAB31353).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human lateral ventricle with PTGDS polyclonal antibody (Cat # PAB31353) shows strong cytoplasmic positivity in granular pattern in glial and neuronal cells.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human PTGDS.
Immunogen	Recombinant protein corresponding to human PTGDS.
Sequence	SWLREKKAALSMCKSVVAPATDGGLNLTSTFLRKNQCETRTMLLQPAGSLGSSYSRSPHWGSTY SVSVVETDQYALLYSQGSKGPGEDFRMATLYSRTQT
Host	Rabbit
Reactivity	Human

Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:20-1:50) Western Blot (1:100-1:250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. 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

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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

Pathway

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

Disease

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