

HPGDS Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51775**Specification**

HPGDS Antibody - Product Information

Application	WB, E
Primary Accession	O60760
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23 KDa

HPGDS Antibody - Additional Information**Gene ID** 27306**Other Names**

Hematopoietic prostaglandin D synthase, H-PGDS, GST class-sigma, Glutathione S-transferase, Glutathione-dependent PGD synthase, Glutathione-requiring prostaglandin D synthase, Prostaglandin-H2 D-isomerase, HPGDS, GSTS, PGDS, PTGDS2

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HPGDS. The exact sequence is proprietary.

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

HPGDS Antibody - Protein Information**Name** HPGDS ([HGNC:17890](#))**Synonyms** GSTS, PGDS, PTGDS2**Function**

Bifunctional enzyme which catalyzes both the conversion of PGH2 to PGD2, a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation, and the conjugation of glutathione with a wide range of aryl halides and organic isothiocyanates. Also exhibits low glutathione-peroxidase activity towards cumene hydroperoxide.

Cellular Location

Cytoplasm.

Tissue Location

Expressed in a number of megakaryocytic cell lines but not in platelets. Highly expressed in adipose tissue, macrophages and placenta. Also expressed at lower levels in lung, heart, lymph nodes, appendix, bone marrow and fetal liver

HPGDS Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HPGDS Antibody - Images**HPGDS Antibody - Background**

Bifunctional enzyme which catalyzes both the conversion of PGH₂ to PGD₂, a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation, and the conjugation of glutathione with a wide range of aryl halides and organic isothiocyanates. Also exhibits low glutathione-peroxidase activity towards cumene hydroperoxide.

HPGDS Antibody - References

Kanaoka Y., et al. Eur. J. Biochem. 267:3315-3322(2000).
Jowsey I.R., et al. Biochem. J. 359:507-516(2001).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.