10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-HPGDS Antibody

Catalog # AP51775

Product Information

Application	WB, IHC
Primary Accession	O60760
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23344

Additional Information

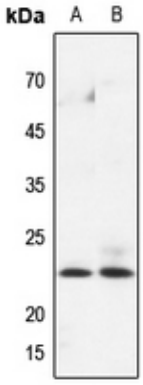
Gene ID	27306
Other Names	GSTS; PGDS; PTGDS2; Hematopoietic prostaglandin D synthase; H-PGDS; GST class-sigma; Glutathione S-transferase; Glutathione-dependent PGD synthase; Glutathione-requiring prostaglandin D synthase; Prostaglandin-H2 D-isomerase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HPGDS. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

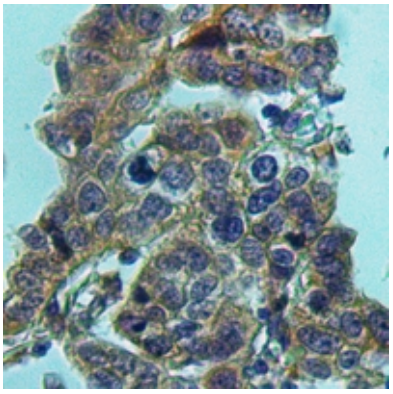
Name	HPGDS (HGNC:17890)
Synonyms	GSTS, PGDS, PTGDS2
Function	Bifunctional enzyme which catalyzes both the conversion of PGH2 to PGD2, a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation, and the conjugation of glutathione with a wide range of aryl halides and organic isothiocyanates (PubMed:10824118, PubMed:11672424, PubMed:12244105, PubMed:12627223, PubMed:15113825, PubMed:16547010, PubMed:17519235, PubMed:19939518, PubMed:9353279, PubMed:9425264). Similarly, catalyzes the conversion of PGH3 (derived from eicosapentaenoate (EPA, C20:5n-3)) to PGD3, though PGH2 remains the preferred substrate (PubMed:17519235). 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

Images



Western blot analysis of HPGDS expression in mouse lung (A), rat lung (B) whole cell lysates. (Predicted band size: 23 kD; Observed band size: 23 kD)



Immunohistochemical analysis of HPGDS staining in human ovarian cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.