10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

HPGD Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6794b

Specification

HPGD Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P15428
Other Accession	Q8MJY8
Reactivity	**Human**
Predicted	**Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**28977**
Antigen Region	**184-212**

HPGD Antibody (C-term) - Additional Information

Gene ID 3248

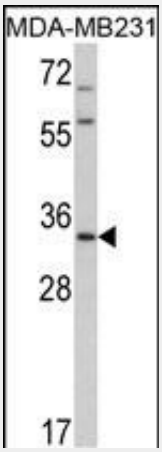
Other Names
15-hydroxyprostaglandin dehydrogenase [NAD(+)], 15-PGDH, Prostaglandin dehydrogenase 1, HPGD, PGDH1

Target/Specificity
This HPGD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 184-212 amino acids from the C-terminal region of human HPGD.

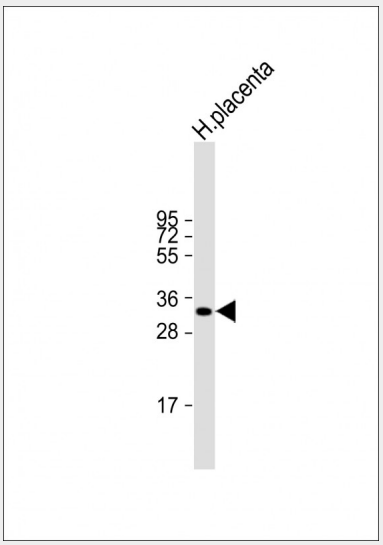
Dilution
WB~~1:2000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



Western blot analysis of HPGD Antibody (C-term) (Cat. #AP6794b) in MDA-MB231 cell line lysates (35ug/lane). HPGD (arrow) was detected using the purified Pab.



Anti-HPGD Antibody (C-term) at 1:2000 dilution + human placenta lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

Precautions
HPGD Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HPGD Antibody (C-term) - Protein Information

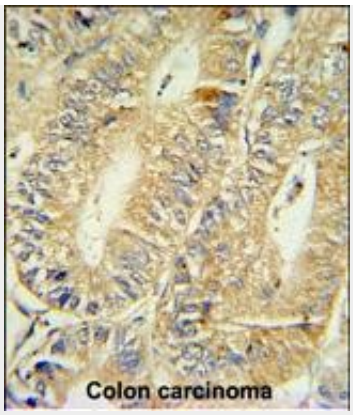
Name HPGD (HGNC:5154)

Synonyms PGDH1, SDR36C1

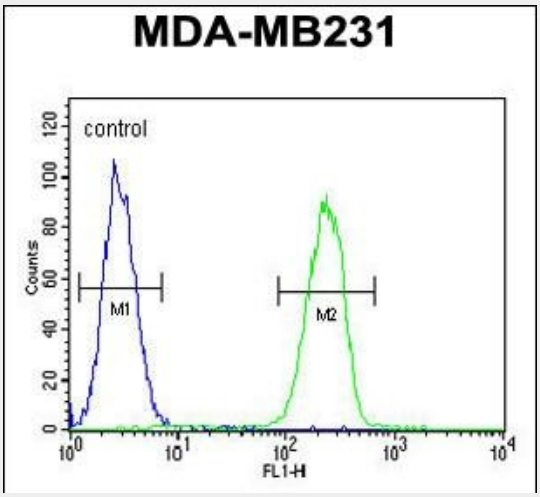
Function
Primary enzyme catalyzing the conversion of hydroxylated arachidonic acid species to their corresponding oxidized metabolites (Probable). Prostaglandin inactivation, catalyzes the first step in the catabolic pathway of the prostaglandins. Contributes to the regulation of events that are under the control of prostaglandin levels (PubMed:15574495, PubMed:16828555, PubMed:8086429). Catalyzes the NAD- dependent dehydrogenation of lipoxin A4 to form 15-oxo-lipoxin A4 (PubMed:10837478). Converts 11(R)-HETE to 11-oxo-5,8,12,14-(Z,Z,E,Z)-eicosatetraenoic acid (ETE) (PubMed:21916491). Has hydroxylated docosahexaenoic acid metabolites as substrates (PubMed:25586183). Converts resolvins E1, D1 and D2 to their oxo products which represents a mode of resolvins inactivation and stabilizes their anti-inflammatory actions (PubMed:16757471, PubMed:22844113).

Cellular Location
Cytoplasm.

Tissue Location



HPGD Antibody (C-term) (Cat. #AP6794b) IHC analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HPGD Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



HPGD Antibody (C-term) (Cat. #AP6794b) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

HPGD Antibody (C-term) - Background

HPGD is a member of the short-chain nonmetalloenzyme alcohol dehydrogenase protein family. This protein is responsible for the metabolism of prostaglandins, which function in a variety of physiologic and cellular processes such as inflammation.

HPGD Antibody (C-term) - References

Detected in colon epithelium (at protein level).	Thill,M., et.al., Anticancer Res. 29 (9), 3619-3625 (2009)

HPGD Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture