

PGDH Antibody
Rabbit mAb
Catalog # AP91773

Specification

PGDH Antibody - Product Information

Application **WB, IHC, FC, ICC**
Primary Accession [P15428](#)
Clonality **Monoclonal**
Other Names
15-PGDH; Hpgd; PGDH; PGDH1; PHOAR1; SDR36C1;

Isotype **Rabbit IgG**
Host **Rabbit**
Calculated MW **28977 Da**

PGDH Antibody - Additional Information

Dilution **WB~~1:1000**
IHC~~1:100~500
FC~~1:10~50
ICC~~N/A
Purification **Affinity-chromatography**
Immunogen **A synthesized peptide derived from human Prostaglandin dehydrogenase 1**
Description **Prostaglandin inactivation. Contributes to the regulation of events that are under the control of prostaglandin levels. Catalyzes the NAD-dependent dehydrogenation of lipoxin A4 to form 15-oxo-lipoxin A4. Inhibits in vivo proliferation of colon cancer cells.**
Storage Condition and Buffer **Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

PGDH Antibody - Protein Information

Name HPGD ([HGNC:5154](#))

Synonyms PGDH1, SDR36C1

Function

Catalyzes the NAD-dependent dehydrogenation (oxidation) of a broad array of hydroxylated polyunsaturated fatty acids (mainly eicosanoids and docosanoids, including prostaglandins, lipoxins and resolvins), yielding their corresponding keto (oxo) metabolites (PubMed:10837478, PubMed:10837478).

<http://www.uniprot.org/citations/16757471> target="_blank">16757471, PubMed:16828555, PubMed:21916491, PubMed:25586183, PubMed:8086429). Decreases the levels of the pro- proliferative prostaglandins such as prostaglandin E2 (whose activity is increased in cancer because of an increase in the expression of cyclooxygenase 2) and generates oxo-fatty acid products that can profoundly influence cell function by abrogating pro-inflammatory cytokine expression (PubMed:15574495, PubMed:25586183). Converts resolvins E1, D1 and D2 to their oxo products, which represents a mode of resolvins inactivation. Resolvin E1 plays important roles during the resolution phase of acute inflammation, while resolvins D1 and D2 have a unique role in obesity-induced adipose inflammation (PubMed:16757471, PubMed:22844113).

Cellular Location

Cytoplasm.

Tissue Location

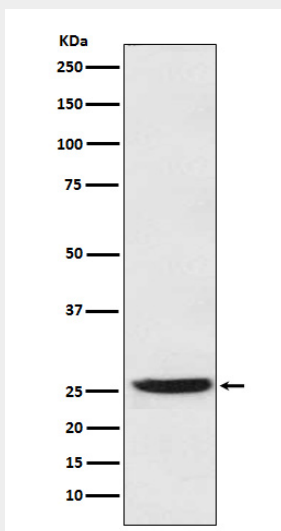
Detected in colon epithelium (at protein level).

PGDH 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](#)

PGDH Antibody - Images



Western blot analysis of Prostaglandin dehydrogenase 1 expression in SW480 cell lysate.