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PGDH Antibody

Rabbit mAb
Catalog # AP91773

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	P15428
Reactivity	Human
Clonality	Monoclonal
Other Names	15-PGDH; Hpgd; PGDH; PGDH1; PHOAR1; SDR36C1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	28977

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:60
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.

Protein Information

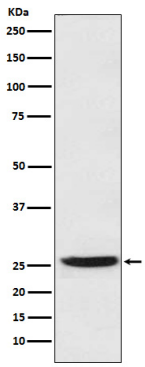
Name	HPGD (HGNC:5154)
Synonyms	PGDH1, SDR36C1
Function	Catalyzes the NAD-dependent dehydrogenation (oxidation) of a broad array of hydroxylated polyunsaturated fatty acids (mainly eicosanoids and docosanoids, including prostaglandins, lipoxins and resolvins), yielding their corresponding keto (oxo) metabolites (PubMed:10837478, PubMed: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 resolvin 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).

Images



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