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Anti-PGDH Rabbit Monoclonal Antibody
Catalog # ABO14653

Specification

Anti-PGDH Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC, IF, ICC, FC**
Primary Accession	P15428
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Human**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-PGDH Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human.

Anti-PGDH Rabbit Monoclonal Antibody - Additional Information

Gene ID 3248

Other Names
15-hydroxyprostaglandin dehydrogenase [NAD(+)], 15-PGDH, 1.1.1.141, Eicosanoid/docosanoid dehydrogenase [NAD(+)], 1.1.1.-, 1.1.1.232, Prostaglandin dehydrogenase 1, Short chain dehydrogenase/reductase family 36C member 1, HPGD (HGNC:5154), PGDH1, SDR36C1

Application Details
WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200
FC 1:60

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human Prostaglandin dehydrogenase 1

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-PGDH Rabbit Monoclonal 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: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).

Anti-PGDH Rabbit Monoclonal 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 Cytomety
- Cell Culture

Anti-PGDH Rabbit Monoclonal Antibody - Images

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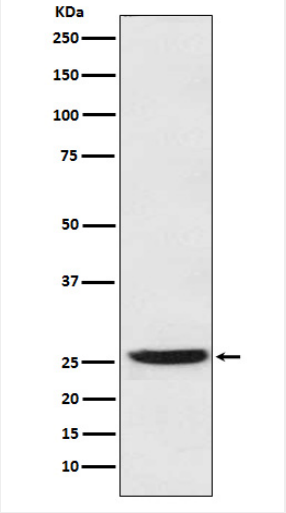

Western blot analysis of Prostaglandin dehydrogenase 1 expression in SW480 cell lysate.