

# 15 PGDH Rabbit mAb

Catalog # AP75018

## Product Information

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|-------------------|------------------------|
| Application       | WB, IHC-P, FC          |
| Primary Accession | <a href="#">P15428</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Monoclonal Antibody    |
| Isotype           | IgG                    |
| Conjugate         | Unconjugated           |
| Purification      | Affinity Purified      |
| Calculated MW     | 28977                  |

## Additional Information

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|-------------|-------------------------------------------------------------------------------------------------|
| Gene ID     | 3248                                                                                            |
| Other Names | HPGD                                                                                            |
| Dilution    | WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:50-1:100                                                     |
| Format      | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| Storage     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.        |

## Protein Information

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| Name     | HPGD ( <a href="#">HGNC:5154</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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: <a href="#">10837478</a> , PubMed: <a href="#">16757471</a> , PubMed: <a href="#">16828555</a> , PubMed: <a href="#">21916491</a> , PubMed: <a href="#">25586183</a> , PubMed: <a href="#">8086429</a> ). 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: <a href="#">15574495</a> , PubMed: <a href="#">25586183</a> ). 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).

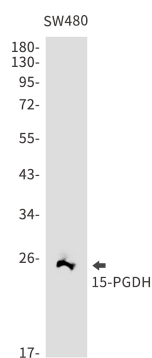
## Background

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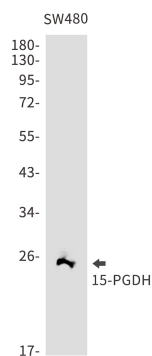
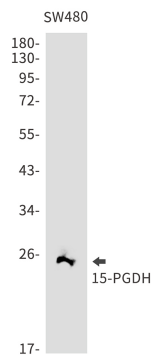
Prostaglandin inactivation. Contributes to the regulation of events that are under the control of prostaglandin levels. Catalyzes the NAD-dependent dehydrogenation of lipoxin A4 to form 15-oxo-lipoxin A4. Inhibits in vivo proliferation of colon cancer cells.

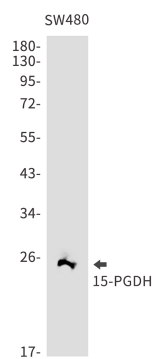
## Images

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Western blot analysis of 15PGDH in SW480 lysates using 15 PGDH antibody.





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