

Recombinant Anti-HPGD Rabbit mAb

Catalog # AP95185

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	P15428
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	28977

Additional Information

Gene ID	3248
Other Names	PGDH1; 15-hydroxyprostaglandin dehydrogenase [NAD(+)]; 15-PGDH; Prostaglandin dehydrogenase 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human HPGD protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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 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](#)).

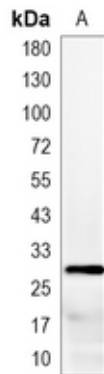
Cellular Location

Cytoplasm.

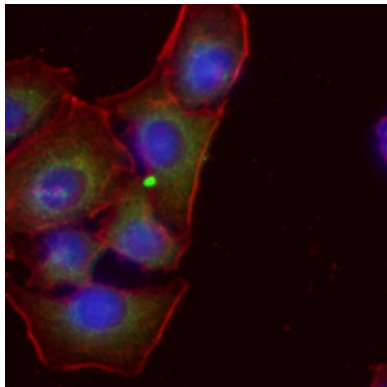
Tissue Location

Detected in colon epithelium (at protein level).

Images



Western blot analysis of HPGD expression in SW480 (A) whole cell lysates. (Predicted band size: 29 kD; Observed band size: 29 kD)



Immunofluorescent analysis of HPGD staining in SW480 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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