

# PTGR2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12869a

## Product Information

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|--------------------------|--------------------------------|
| <b>Application</b>       | WB, IHC-P, E                   |
| <b>Primary Accession</b> | <a href="#">Q8N8N7</a>         |
| <b>Other Accession</b>   | <a href="#">NP_001139626.1</a> |
| <b>Reactivity</b>        | Human                          |
| <b>Host</b>              | Rabbit                         |
| <b>Clonality</b>         | Polyclonal                     |
| <b>Isotype</b>           | Rabbit IgG                     |
| <b>Clone Names</b>       | RB32676                        |
| <b>Calculated MW</b>     | 38499                          |
| <b>Antigen Region</b>    | 65-94                          |

## Additional Information

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|---------------------------|--|
| <b>Gene ID</b>            | 145482   |
| <b>Other Names</b>        | Prostaglandin reductase 2, PRG-2, 15-oxoprostaglandin 13-reductase, Zinc-binding alcohol dehydrogenase domain-containing protein 1, PTGR2, ZADH1                             |
| <b>Target/Specificity</b> | This PTGR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 65-94 amino acids from the N-terminal region of human PTGR2.         |
| <b>Dilution</b>           | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.  |
| <b>Format</b>             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| <b>Storage</b>            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.                                      |
| <b>Precautions</b>        | PTGR2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.  |

## Protein Information

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|-----------------|--------------------------------------|
| <b>Name</b>     | PTGR2 ( <a href="#">HGNC:20149</a> ) |
| <b>Synonyms</b> | ZADH1                                |

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|--------------------------|---|
| <b>Function</b>          | Functions as 15-oxo-prostaglandin 13-reductase and acts on 15-keto-PGE1, 15-keto-PGE2, 15-keto-PGE1-alpha and 15-keto-PGE2-alpha with highest activity towards 15-keto-PGE2 (PubMed: <a href="#">19000823</a> ). Overexpression represses transcriptional activity of PPARG and inhibits adipocyte differentiation (By similarity). |
| <b>Cellular Location</b> | Cytoplasm.  |
| <b>Tissue Location</b>   | Widely expressed..  |

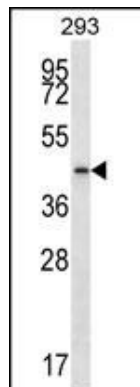
## Background

This gene encodes an enzyme involved in the metabolism of prostaglandins. The encoded protein catalyzes the NADPH-dependent conversion of 15-keto-prostaglandin E2 to 15-keto-13,14-dihydro-prostaglandin E2. This protein may also be involved in regulating activation of the peroxisome proliferator-activated receptor. Alternative splicing results in multiple transcript variants.

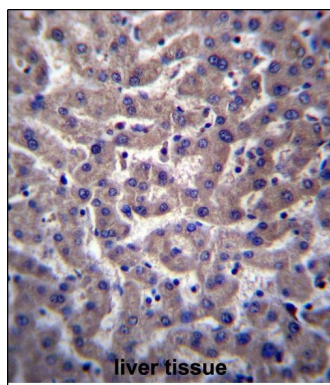
## References

Wu, Y.H., et al. Structure 16(11):1714-1723(2008)  
Gao, K., et al. Int. J. Oncol. 32(6):1343-1349(2008)  
Chou, W.L., et al. J. Biol. Chem. 282(25):18162-18172(2007)  
Lamesch, P., et al. Genomics 89(3):307-315(2007)  
Zhang, L., et al. Cytogenet. Genome Res. 103 (1-2), 79-83 (2003) :

## Images



PTGR2 Antibody (N-term) (Cat. #AP12869a) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the PTGR2 antibody detected the PTGR2 protein (arrow).



PTGR2 Antibody (N-term) (Cat. #AP12869a) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PTGR2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.