

**Goat anti-PTGR1 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4436a****Specification**

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**Goat anti-PTGR1 Antibody - Product Information**

Application	<b>WB, Pep-ELISA</b>
Primary Accession	<a href="#">Q14914</a>
Other Accession	<a href="#">NP_036344.2</a> , <a href="#">NP_001139581.1</a>
Reactivity	<b>Human</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>35870</b>

**Goat anti-PTGR1 Antibody - Additional Information****Gene ID** 22949**Other Names**

PTGR1; prostaglandin reductase 1; LTB4DH; PGR1; ZADH3; 15-oxoprostaglandin 13-reductase; NADP-dependent leukotriene B4 12-hydroxydehydrogenase; PRG-1; leukotriene B4 12-hydroxydehydrogenase; zinc binding alcohol dehydrogenase domain containing 3

**Dilution**

WB~~1:1000  
Pep-ELISA~~N/A

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Immunogen**

This antibody is expected to recognize both reported isoforms (NP\_036344.2; NP\_001139581.1). Reported variants represent identical protein: NP\_036344.2, NP\_001139580.1.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat anti-PTGR1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat anti-PTGR1 Antibody - Protein Information****Name** PTGR1

**Synonyms** LTB4DH**Function**

NAD(P)H-dependent oxidoreductase involved in metabolic inactivation of pro- and anti-inflammatory eicosanoids: prostaglandins (PG), leukotrienes (LT) and lipoxins (LX) (PubMed:<a href="http://www.uniprot.org/citations/25619643" target="\_blank">25619643</a>). Catalyzes with high efficiency the reduction of the 13,14 double bond of 15- oxoPGs, including 15-oxo-PGE1, 15-oxo-PGE2, 15-oxo-PGF1-alpha and 15- oxo-PGF2-alpha (PubMed:<a href="http://www.uniprot.org/citations/25619643" target="\_blank">25619643</a>). Catalyzes with lower efficiency the oxidation of the hydroxyl group at C12 of LTB4 and its derivatives, converting them into biologically less active 12-oxo-LTB4 metabolites (By similarity) (PubMed:<a href="http://www.uniprot.org/citations/25619643" target="\_blank">25619643</a>). Reduces 15-oxo-LXA4 to 13,14 dihydro-15-oxo-LXA4, enhancing neutrophil recruitment at the inflammatory site (By similarity). May play a role in metabolic detoxification of alkenals and ketones. Reduces alpha,beta-unsaturated alkenals and ketones, particularly those with medium-chain length, showing highest affinity toward (2E)-decenal and (3E)-3-nonen-2-one (PubMed:<a href="http://www.uniprot.org/citations/25619643" target="\_blank">25619643</a>). May inactivate 4-hydroxy-2-nonenal, a cytotoxic lipid constituent of oxidized low-density lipoprotein particles (By similarity).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q29073}.

**Tissue Location**

High expression in the kidney, liver, and intestine but not in leukocytes.

**Goat anti-PTGR1 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 Cytometry](#)
- [Cell Culture](#)

**Goat anti-PTGR1 Antibody - Images**