

Goat anti-PTGR1 Antibody

Peptide-affinity purified goat antibody Catalog # AF4436a

Specification

Goat anti-PTGR1 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host

Clonality Calculated MW WB, Pep-ELISA

014914

NP 036344.2, NP 001139581.1

Human Goat Polyclonal 35870

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

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.

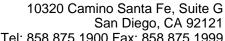
Goat anti-PTGR1 Antibody - Protein Information

Name PTGR1

Synonyms LTB4DH

Function

NAD(P)H-dependent oxidoreductase involved in metabolic inactivation of pro- and



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anti-inflammatory eicosanoids: prostaglandins (PG), leukotrienes (LT) and lipoxins (LX) (PubMed:25619643). 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: 25619643). 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 (PubMed: 25619643) (By similarity). 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:25619643). 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 Cytomety
- Cell Culture

Goat anti-PTGR1 Antibody - Images