10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat anti-PTGR1 Antibody

Peptide-affinity purified goat antibody
Catalog # AF4436a

Product Information

Application	WB, Pep-ELISA
Primary Accession	Q14914
Other Accession	NP_036344.2, NP_001139581.1
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Clone Names	PTGR1
Calculated MW	35870

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.

Protein Information

Name	PTGR1
Synonyms	LTB4DH
	NAD(P)H-dependent oxidoreductase involved in metabolic inactivation of

Function	pro- and 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 (By similarity) (PubMed:25619643). 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.

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