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Anti-PTGR1 Antibody

Rabbit polyclonal antibody to PTGR1
Catalog # AP61338

Product Information

Application	WB
Primary Accession	Q14914
Other Accession	Q91YR9
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35870

Additional Information

Gene ID	22949
Other Names	LTB4DH; Prostaglandin reductase 1; PRG-1; 15-oxoprostaglandin 13-reductase; NADP-dependent leukotriene B4 12-hydroxydehydrogenase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PTGR1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

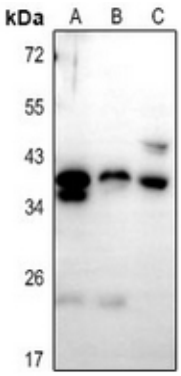
Name	PTGR1
Synonyms	LTB4DH
Function	NAD(P)H-dependent oxidoreductase involved in metabolic inactivation of pro- and anti-inflammatory eicosanoids: prostaglandins (PG), leukotrienes (LT) and lipoxins (LX) (PubMed:25619643). Catalyzes with high efficiency the reduction of the 13,14 double bond of 15- oxoPGs, 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.

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PTGR1. The exact sequence is proprietary.

Images



Western blot analysis of PTGR1 expression in HEK293T (A), HepG2 (B), mouse kidney (C) whole cell lysates.