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Anti-PTGR1 / LTB4DH Antibody (aa75-124)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18363

Product Information

Application	WB, IHC-P, E
Primary Accession	Q14914
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	35870

Additional Information

Gene ID	22949
Alias Symbol	PTGR1
Other Names	PTGR1, PGR1, ZADH3, PRG-1, LTB4DH, Prostaglandin reductase 1
Target/Specificity	PTGR1 Antibody detects endogenous levels of total PTGR1 protein.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-PTGR1 / LTB4DH Antibody (aa75-124) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

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