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PTGR1 Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP5941c

Specification

PTGR1 Antibody (Center) Blocking peptide - Product Information

Primary Accession	Q14914
Other Accession	NP_001139580.1, NP_001139581.1, NP_036344.2

PTGR1 Antibody (Center) Blocking peptide - Additional Information

Gene ID 22949

Other Names
Prostaglandin reductase 1, PRG-1, 131-, 15-oxoprostaglandin 13-reductase, NADP-dependent leukotriene B4 12-hydroxydehydrogenase, PTGR1, LTB4DH

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PTGR1 Antibody (Center) Blocking peptide - 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:<a

href="http://www.uniprot.org/citations/25619643" target="_blank">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.

PTGR1 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PTGR1 Antibody (Center) Blocking peptide - Images