

**PTGR1 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP5941c****Specification**

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**PTGR1 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [O14914](#)  
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, 13l-, 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:<a href="http://www.uniprot.org/citations/25619643" target="\_blank">25619643</a>). 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:<a href="http://www.uniprot.org/citations/25619643" target="\_blank">25619643</a>). 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:<a href="http://www.uniprot.org/citations/25619643" target="\_blank">25619643</a>) (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:<a href="http://www.uniprot.org/citations/25619643" target="\_blank">25619643</a>).  
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**