PTGR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTGR1, Polyclonal Antibody
Full Product Name	PTGR1 Antibody
Product Gene Name	anti-PTGR1 antibody
Product Synonym Names	Prostaglandin reductase 1; PRG-1; NADP-dependent leukotriene B4 12-hydroxydehydrogenase; EC=1.3.1.74; 15-oxoprostaglandin 13-reductase
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total PTGR1 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	35,870 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (114312002..114362135, complement). Location: 9q31.3
OMIM	601274
3D Structure	ModBase 3D Structure for Q14914
Immunogen	Synthesized peptide derived from internal of human PTGR1.
Product Categories/Family for anti-PTGR1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PTGR1 antibody	Western Blot (WB)
Application Notes for anti-PTGR1 antibody	WB: 1:500~1:3000
Related Product Information for anti-PTGR1 antibody	Functions as 15-oxo-prostaglandin 13-reductase and acts on 15-oxo-PGE1, 15-oxo-PGE2 and 15-oxo-PGE2-alpha. Has no activity towards PGE1, PGE2 and PGE2-alpha By similarity. Catalyzes the conversion of leukotriene B4 into its biologically less active metabolite, 12-oxo-leukotriene B4. This is an initial and key step of metabolic inactivation of leukotriene B4.
Product References and Citations for anti-PTGR1 antibody	Humphray S.J., Nature 429:369-374 (2004).The MGC Project Team; Genome Res. 14:2121-2127 (2004).Yokomizo T., J. Biol. Chem. 271:2844-2850 (1996)
Other Notes	Small volumes of anti-PTGR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for PTGR1 purchase	MBS8588410 is an antibody targeting PTGR1. Also known as PTGR1 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTGR1. It may not necessarily be applicable to this product.

NCBI GI #	226059159
NCBI GeneID	22949
NCBI Accession #	NP_001139580.1
UniProt Primary Accession #	Q14914
UniProt Secondary Accession #	Q8IYQ0; Q9H1X6; A8K0N2; B4DPK3; F5GY50
UniProt Related Accession #	Q14914
GenBank Nucleotide #	NM_001146108.1
NCBI Official Full Name	prostaglandin reductase 1 isoform 1
NCBI Official Synonym Full Names	prostaglandin reductase 1
NCBI Official Symbol	PTGR1
NCBI Official Synonym Symbols	PGR1; ZADH3; LTB4DH
UniProt Protein Name	Prostaglandin reductase 1
UniProt Synonym Protein Names	15-oxoprostaglandin 13-reductase (EC:1.3.1.48); NADP-dependent leukotriene B4 12-hydroxydehydrogenase (EC:1.3.1.74)
Protein Family	Prostaglandin reductase
UniProt Gene Name	PTGR1
UniProt Synonym Gene Names	LTB4DH; PRG-1
UniProt Entry Name	PTGR1_HUMAN
NCBI Protein Information	prostaglandin reductase 1; PRG-1; 15-oxoprostaglandin 13-reductase; leukotriene B4 12-hydroxydehydrogenase; NADP-dependent leukotriene B4 12-hydroxydehydrogenase; zinc binding alcohol dehydrogenase domain containing 3
NCBI Summary for PTGR1	This gene encodes an enzyme that is involved in the inactivation of the chemotactic factor, leukotriene B4. The encoded protein specifically catalyzes the NADP+ dependent conversion of leukotriene B4 to 12-oxo-leukotriene B4. A pseudogene of this gene is found on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2009]
UniProt Comments for PTGR1	LTB4DH: Functions as 15-oxo-prostaglandin 13-reductase and acts on 15-oxo-PGE1, 15-oxo-PGE2 and 15-oxo-PGE2-alpha. Has no activity towards PGE1, PGE2 and PGE2-alpha. Catalyzes the conversion of leukotriene B4 into its biologically less active metabolite, 12-oxo-leukotriene B4. This is an initial and key step of metabolic inactivation of leukotriene B4. Belongs to the NADP-dependent oxidoreductase L4BD family. Protein type: Oxidoreductase; EC 1.3.1.74; EC 1.3.1.48 Chromosomal Location of Human Ortholog: 9q31.3 Cellular Component: cytoplasm Molecular Function: 15-oxoprostaglandin 13-oxidase activity; zinc ion binding; 2-alkenal reductase activity Biological Process: response to toxin; cyclooxygenase pathway; arachidonic acid metabolic process; leukotriene metabolic process
Research Articles on PTGR1	**1.** Data show that two genes, LTB4DH and DPYSL3, were confirmed to be candidate genes for the predictor of a good immune response.

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