Product Name: LTB4DH Rabbit Polyclonal Antibody
Catalog #: APRab13472
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:10000
Molecular Weight	36kDa

Antigen Information

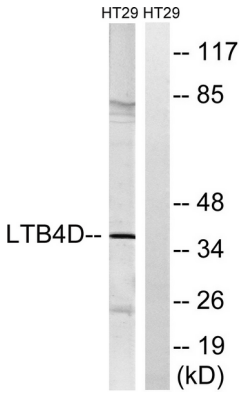
Gene Name	PTGR1
Alternative Names	PTGR1; LTB4DH; Prostaglandin reductase 1; PRG-1; 15-oxoprostaglandin 13-reductase; NADP-dependent leukotriene B4 12-hydroxydehydrogenase
Gene ID	22949.0
SwissProt ID	Q14914
Immunogen	The antiserum was produced against synthesized peptide derived from human PTGR1. AA range:75-124

Background

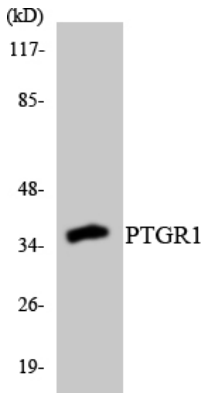
This gene encodes an enzyme that is involved in the inactivation of the chemotactic factor, leukotriene B4. The encoded protein specifically catalyzes the NADP+ dependent conversion of leukotriene B4 to 12-oxo-leukotriene B4. A pseudogene of this gene is found on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2009],catalytic activity:11-alpha-hydroxy-9,15-dioxoprost-5-enoate + NAD(P)(+) = (5Z)-(13E)-11-alpha-hydroxy-9,15-dioxoprosta-5,13-dienoate + NAD(P)H.,catalytic activity:n-alkanal + NAD(P)(+) = alk-2-enal + NAD(P)H.,function: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.,similarity:Belongs to the NADP-dependent oxidoreductase L4BD family.,subunit:Monomer or homodimer.,tissue specificity:High expression in the kidney, liver, and intestine but not in leukocytes.,

Research Area

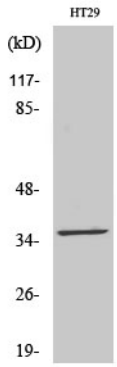
Image Data



Western blot analysis of lysates from HT-29 cells, using PTGR1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from 293 cells using PTGR1 antibody.



Western Blot analysis of various cells using LTB4DH Polyclonal Antibody