


Product datasheet

Anti-PTGR1 antibody [EPR13451-10] ab181131

KO VALIDATED Recombinant RabMAB

[1 References](#) [4 Images](#)

Overview

Product name	Anti-PTGR1 antibody [EPR13451-10]
Description	Rabbit monoclonal [EPR13451-10] to PTGR1
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HT-29 and HeLa cell lysates.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAB[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR13451-10
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181131 in the following tested applications.

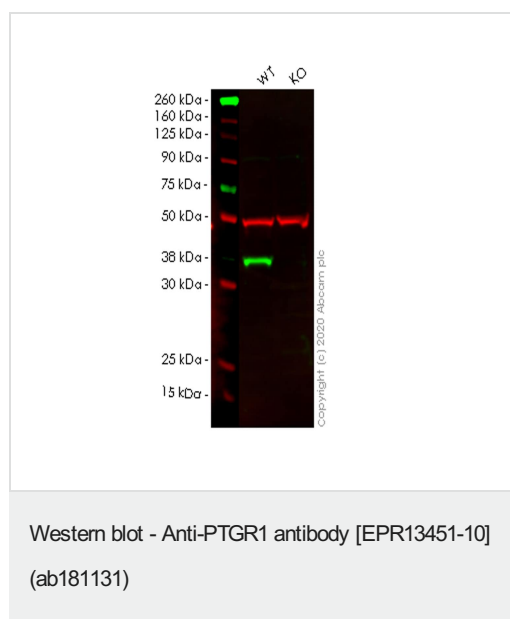
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/2000. Detects a band of approximately 36 kDa (predicted molecular weight: 35 kDa).

Target

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.
Tissue specificity	High expression in the kidney, liver, and intestine but not in leukocytes.
Sequence similarities	Belongs to the NADP-dependent oxidoreductase L4BD family.
Cellular localization	Cytoplasm.

Images



All lanes : Anti-PTGR1 antibody [EPR13451-10] (ab181131) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : PTGR1 knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

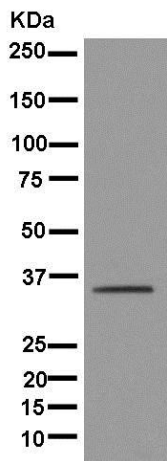
Predicted band size: 35 kDa

Observed band size: 38 kDa

Lanes 1-2: Merged signal (red and green). Green - ab181131 observed at 38 kDa. Red - loading control **ab7291** observed at 50 kDa.

ab181131 Anti-PTGR1 antibody [EPR13451-10] was shown to specifically react with PTGR1 in wild-type HeLa cells. Loss of signal

was observed when knockout cell line **ab265169** (knockout cell lysate **ab258152**) was used. Wild-type and PTGR1 knockout samples were subjected to SDS-PAGE. ab181131 and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-PTGR1 antibody [EPR13451-10] (ab181131)

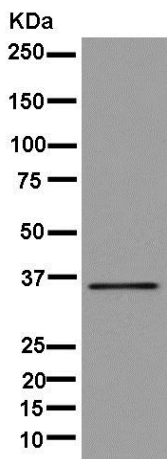
Anti-PTGR1 antibody [EPR13451-10] (ab181131) at 1/2000 dilution + HT-29 cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 35 kDa

Observed band size: 36 kDa



Western blot - Anti-PTGR1 antibody [EPR13451-10] (ab181131)

Anti-PTGR1 antibody [EPR13451-10] (ab181131) at 1/1000 dilution + HeLa cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 35 kDa

Observed band size: 36 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-PTGR1 antibody [EPR13451-10] (ab181131)

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