

## Product datasheet

# Human PTGR1 knockout HeLa cell lysate ab258152

3 Images

### Overview

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<b>Product name</b>	Human PTGR1 knockout HeLa cell lysate
<b>Product overview</b>	Knockout cell lysate achieved by CRISPR/Cas9.
<b>Parental Cell Line</b>	HeLa
<b>Organism</b>	Human
<b>Mutation description</b>	Knockout achieved by using CRISPR/Cas9, 2 bp deletion in exon2 and Insertion of the selection cassette in exon2.
<b>Passage number</b>	<20
<b>Knockout validation</b>	Sanger Sequencing, Western Blot (WB)
<b>Reconstitution notes</b>	To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT. <i>*Usage of SDS sample buffer is not recommended with these lyophilized lysates.</i>

**Notes**

**Lysate preparation:** Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found [here](#). Please refer to our lysis protocol for further details on how our lysates are prepared.

**User storage instructions:** Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage.

Access thousands of knockout cell lysates, generated from commonly used cancer cell lines.

**[See here for more information on knockout cell lysates.](#)**

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**Tested applications**                      **Suitable for:** WB

## Properties

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**Storage instructions** Store at -80°C. Please refer to protocols.

Components	1 kit
ab261154 - Human PTGR1 knockout HeLa cell lysate	1 x 100µg
ab255929 - Human wild-type HeLa cell lysate	1 x 100µg

**Cell type** epithelial  
**Disease** Adenocarcinoma  
**Gender** Female  
**STR Analysis** Amelogenin X D5S818: 11, 12 D13S317: 12, 13.3 D7S820: 8, 12 D16S539: 9, 10 vWA: 16, 18 TH01: 7 TPOX: 8,12 CSF1PO: 9, 10

## Target

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**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.

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## Applications

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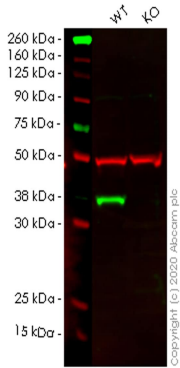
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab258152 in the following tested applications.

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

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 35 kDa.

## Images

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Western blot - Human PTGR1 knockout HeLa cell lysate (ab258152)

**Lane 1:** Wild-type HeLa cell lysate (20 ug)

**Lane 2:** PTGR1 knockout HeLa cell lysate (20 ug)

**ab181131** 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.

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Mut  TCTAGGAGCTTCAGGATGGTTCGTAATAA--CATGGACCCTGAAGAAGCACTTTGTTGGC
      |||
WT   TCTAGGAGCTTCAGGATGGTTCGTAATAAGACATGGACCCTGAAGAAGCACTTTGTTGGC
  
```

Sanger Sequencing - Human PTGR1 knockout HeLa cell lysate (ab258152)

Allele-1: 2 bp deletion in exon2

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Mut  TTCAGGATGGTTCGTAATAA****Insertion****GACATGGACCCTGAAGAAGC
      |||
WT   TTCAGGATGGTTCGTAATAA          GACATGGACCCTGAAGAAGC
  
```

Sanger Sequencing - Human PTGR1 knockout HeLa cell lysate (ab258152)

Allele-2: Insertion of the selection cassette in exon2

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