

Product datasheet

Human LTA4H (Leukotriene A4 hydrolase) knockout HEK-293T cell lysate ab258034

3 Images

Overview

Product name	Human LTA4H (Leukotriene A4 hydrolase) knockout HEK-293T cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK293T
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, Homozygous: 10 bp deletion in exon 2.
Passage number	<20
Knockout validation	Sanger Sequencing, Western Blot (WB)
Reconstitution notes	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

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

Components	1 kit
ab261120 - Human LTA4H knockout HEK293T cell lysate	1 x 100µg
ab255553 - Human wild-type HEK293T cell lysate	1 x 100µg

Cell type epithelial

STR Analysis Amelogenin X D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 vWA: 16, 19 TH01: 7, 9.3 TPOX: 11 CSF1PO: 11, 12

Target

Function Hydrolyzes an epoxide moiety of leukotriene A4 (LTA-4) to form leukotriene B4 (LTB-4). The enzyme also has some peptidase activity.

Pathway Lipid metabolism; leukotriene B4 biosynthesis.

Sequence similarities Belongs to the peptidase M1 family.

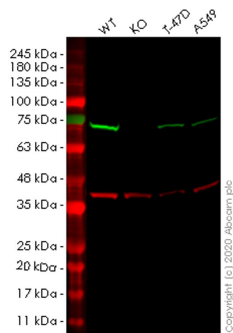
Cellular localization Cytoplasm.

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab258034 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: 69 kDa.

Images



Western blot - Human LTA4H knockout HEK293T cell lysate (ab258034)

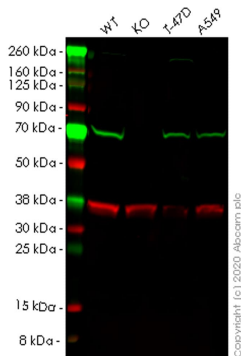
Lane 1: Wild-type HEK293T cell lysate (20 ug)

Lane 2: LTA4H knockout HEK293T cell lysate (20 ug)

Lane 3: T-47D cell lysate (20 ug)

Lane 4: A549 cell lysate (20 ug)

ab109434 was shown to specifically react with Leukotriene A4 hydrolase/LTA4H in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266467** (knockout cell lysate ab258034) was used. Wild-type and Leukotriene A4 hydrolase/LTA4H knockout samples were subjected to SDS-PAGE. **ab109434** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) 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 - Human LTA4H knockout HEK293T cell lysate (ab258034)

Lane 1: Wild-type HEK293T cell lysate (20 ug)

Lane 2: LTA4H knockout HEK293T cell lysate (20 ug)

Lane 3: T-47D cell lysate (20 ug)

Lane 4: A549 cell lysate (20 ug)

ab133512 was shown to specifically react with Leukotriene A4 hydrolase/LTA4H in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266467** (knockout cell lysate ab258034) was used. Wild-type and Leukotriene A4 hydrolase/LTA4H knockout samples were subjected to SDS-PAGE. **ab133512** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) 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.

Mut	CAAATATGCTCTTGGAGAAAGACAAAGTT-----GCCAATGGAAATCTCTCTTCC
WT	CAAATATGCTCTTGGAGAAAGACAAAGTTACAAGGGATCGCCAATGGAAATCTCTCTTCC

Homozygous: 10 bp deletion in exon 2

Sanger Sequencing - Human LTA4H knockout

HEK293T cell lysate (ab258034)

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