

# Human SLC39A14 (ZIP-14) knockout HEK-293T cell lysate ab258683

画像数 3

### 製品の概要

製品名	Human SLC39A14 (ZIP-14) knockout HEK-293T cell lysate
製品の概要	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK293T
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, Homozygous: 1 bp insertion 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>

### 特記事項

**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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### アプリケーション

**適用あり:** WB, Sanger Sequencing

## 製品の特性

**保存方法** Store at -80°C. Please refer to protocols.

内容	1 kit
ab261319 - Human SLC39A14 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

## ターゲット情報

**機能** May be able to transport iron (By similarity). Acts as a zinc-influx transporter.

**組織特異性** Ubiquitously expressed, with increased expression in liver, pancreas, fetal liver, thyroid gland, left and right ventricle, right atrium and fetal heart. Weakly expressed in spleen, thymus, and peripheral blood leukocytes.

**配列類似性** Belongs to the ZIP transporter (TC 2.A.5) family.

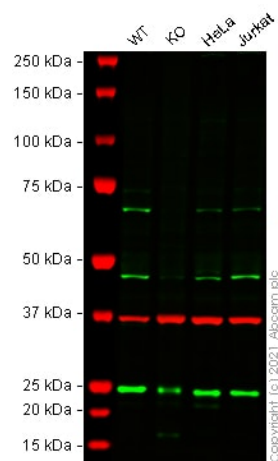
**細胞内局在** Cell membrane. Cell projection > lamellipodium. Localized to the plasma membrane and also found colocalized with F-actin concentrated on lamellipodiae.

## アプリケーション

**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab258683の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 54 kDa.
<b>Sanger Sequencing</b>		Use at an assay dependent concentration.

## 画像



Human SLC39A14 (ZIP-14) knockout HEK-293T cell lysate (ab258683)

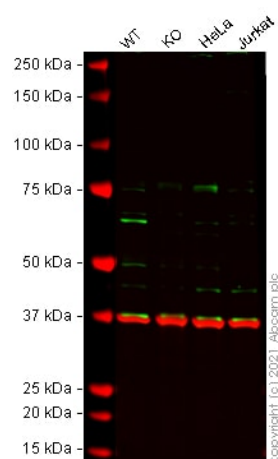
**Lane 1:** Wild-type HEK-293T cell lysate 20 µg

**Lane 2:** SLC39A14 knockout HEK-293T cell lysate 20 µg

**Lane 3:** HeLa cell lysate 20 µg

**Lane 4:** Jurkat cell lysate 20 µg

False colour image of Western blot: Anti-SLC39A14/ZIP-14 antibody staining at 1 µg/ml, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, [ab106568](#) was shown to bind specifically to SLC39A14/ZIP-14. A band was observed at 68 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in SLC39A14 knockout cell line [ab266126](#) (knockout cell lysate ab258683). To generate this image, wild-type and SLC39A14 knockout HEK-293T cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween®20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution. 68 kDa observed band.



Human SLC39A14 (ZIP-14) knockout HEK-293T cell lysate (ab258683)

**Lane 1:** Wild-type HEK-293T cell lysate 20 µg

**Lane 2:** SLC39A14 knockout HEK-293T cell lysate 20 µg

**Lane 3:** HeLa cell lysate 20 µg

**Lane 4:** Jurkat cell lysate 20 µg

False colour image of Western blot: Anti-SLC39A14/ZIP-14 antibody staining at 1/2000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, [ab191199](#) was shown to bind specifically to SLC39A14/ZIP-14. A band was observed at 68 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in SLC39A14 knockout cell line [ab266126](#) (knockout cell lysate ab258683). To generate this image, wild-type and SLC39A14 knockout HEK-293T cell lysates were analysed. First, samples were run on an SDS-PAGE gel then

transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween<sup>®</sup>20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye<sup>®</sup> 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.



Homozygous: 1 bp insertion in exon 2

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