abcam

Product datasheet

# Human BCL6 knockout HeLa cell line ab265410

画像数 4

## 製品の概要

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|---|---|
| **製品名** | Human BCL6 knockout HeLa cell line |
| **Parental Cell Line** | HeLa |
| **Organism** | Human |
| **Mutation description** | Knockout achieved by using CRISPR/Cas9, 14 bp deletion in exon 2 and Insertion of the selection cassette in exon 2 |
| **Passage number** | <20 |
| **Knockout validation** | Sanger Sequencing, Western Blot (WB) |
| **アプリケーション** | **適用あり:** WB |
| **Biosafety level** | 2 |
| **特記事項** | **Recommended control:** Human wild-type HeLa cell line (**ab255928**). Please note a wild-type cell line is not automatically included with a knockout cell line order, if required please add recommended wild-type cell line at no additional cost using the code WILDTYPE-TMTK1.<br><br>**Cryopreservation cell medium:** Cell Freezing Medium-DMSO Serum free media, contains 8.7% DMSO in MEM supplemented with methyl cellulose.<br><br>**Culture medium:** DMEM (High Glucose) + 10% FBS<br><br>**Initial handling guidelines:** Upon arrival, the vial should be stored in liquid nitrogen vapor phase and not at -80°C. Storage at -80°C may result in loss of viability.<br><br>1. Thaw the vial in 37°C water bath for approximately 1-2 minutes.<br>2. Transfer the cell suspension (0.8 mL) to a 15 mL/50 mL conical sterile polypropylene centrifuge tube containing 8.4 mL pre-warmed culture medium, wash vial with an additional 0.8 mL culture medium (total volume 10 mL) to collect remaining cells, and centrifuge at 201 x g (rcf) for 5 minutes at room temperature. 10 mL represents minimum recommended dilution. 20 mL represents maximum recommended dilution.<br>3. Resuspend the cell pellet in 5 mL pre-warmed culture medium and count using a haemocytometer or alternative cell counting method. Based on cell count, seed cells in an appropriate cell culture flask at a density of $2x10^4$ cells/$cm^2$. Seeding density is given as a guide only and should be scaled to align with individual lab schedules.<br>4. Incubate the culture at 37°C incubator with 5% $CO_2$. Cultures should be monitored daily.<br><br>**Subculture guidelines:**<br><br>All seeding densities should be based on cell counts gained by established methods.<br>A guide seeding density of $2x10^4$ cells/$cm^2$ is recommended.<br>A partial media change 24 hours prior to subculture may be helpful to encourage growth, if |

required.
Cells should be passaged when they have achieved 80-90% confluence.
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We will provide viable cells that proliferate on revival.

## 製品の特性

| | |
|---|---|
| **Number of cells** | 1 x $10^6$ cells/vial, 1 mL |
| **Adherent /Suspension** | Adherent |
| **Tissue** | Cervix |
| **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 |
| **Mycoplasma free** | Yes |
| **保存方法** | Shipped on Dry Ice. Store in liquid nitrogen. |
| **バッファー** | Constituents: 8.7% Dimethylsulfoxide, 2% Cellulose, methyl ether |

## ターゲット情報

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|---|---|
| **機能** | Transcriptional repressor which is required for germinal center formation and antibody affinity maturation. Probably plays an important role in lymphomagenesis. |
| **組織特異性** | Expressed in germinal center T and B cells and in primary immature dendritic cells. |
| **関連疾患** | Note=Chromosomal aberrations involving BCL6 may be a cause of B-cell non-Hodgkin lymphoma. Translocation t(3;14)(q27;q32); translocation t(3;22)(q27;q11) with immunoglobulin gene regions.<br>Note=A chromosomal aberration involving BCL6 may be a cause of a form of B-cell leukemia. Translocation t(3;11)(q27;q23) with POU2AF1/OBF1.<br>Note=A chromosomal aberration involving BCL6 may be a cause of lymphoma. Translocation t(3;4)(q27;p11) with ARHH/TTF. |
| **配列類似性** | Contains 1 BTB (POZ) domain.<br>Contains 6 C2H2-type zinc fingers. |
| **ドメイン** | The BTB domain mediates homodimerization. Its dimer interface mediates peptide binding such as to corepressors BCOR and NCOR2. |
| **翻訳後修飾** | Phosphorylated by MAPK1 in response to antigen receptor activation. Phosphorylation induces its degradation by ubiquitin/proteasome pathway. |
| **細胞内局在** | Nucleus. |

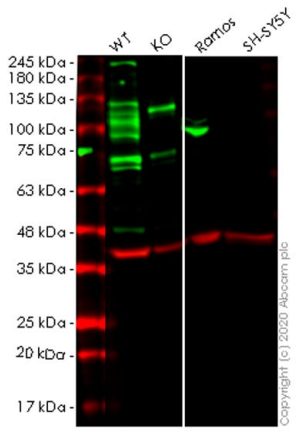
## アプリケーション

**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ab265410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 |
|---|---|---|
| **WB** | | Use at an assay dependent concentration. Predicted molecular weight: 79 kDa. |

## 画像




Western blot - Human BCL6 knockout HeLa cell line (ab265410)

**All lanes :** Anti-Bcl6 antibody [EP529Y] (**ab33901**) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa cell lysate
**Lane 2 :** BCL6 knockout HeLa cell lysate
**Lane 3 :** Ramos cell lysate
**Lane 4 :** SH-SY5Y cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 79 kDa
**Observed band size:** 78 kDa

**Lanes 1-4:** Merged signal (red and green). Green **ab33901** observed at 78 kDa. Red - loading control, **ab8245** observed at 37 kDa.

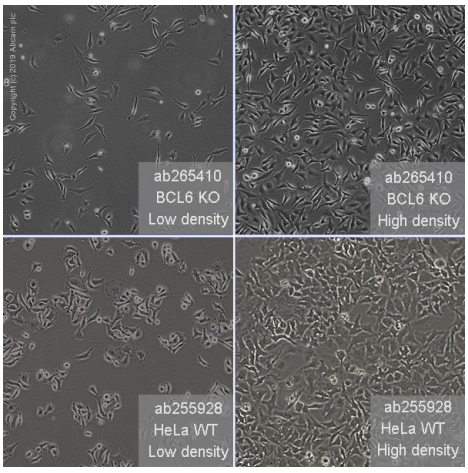
**ab33901** Anti-Bcl6 antibody [EP529Y] was shown to react with BCL6 in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab265410 (knockout cell lysate **ab257178**) was used. Wild-type and Bcl6 knockout samples were subjected to SDS-PAGE. **ab33901** and Anti-GAPDH antibody [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 10000 dilution for 1 hour at room temperature before imaging.


Sanger Sequencing - Human BCL6 knockout HeLa cell line (ab265410)

Allele-1: 14 bp deletion in exon 2.


Sanger Sequencing - Human BCL6 knockout HeLa cell line (ab265410)

Allele-2: Insertion of the selection cassette in exon 2.




Cell Culture - Human BCL6 knockout HeLa cell line (ab265410)

Representative images of BCL6 knockout HeLa cells, low and high confluency examples (top left and right respectively) and wild-type HeLa cells, low and high confluency (bottom left and right respectively) showing typical adherent, epithelial-like morphology. Images were captured at 10X magnification using a EVOS XL Core microscope.

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