

## Product datasheet

# Human CXCL10 (IP10) knockout A549 cell lysate ab256886

2 Images

### Overview

<b>Product name</b>	Human CXCL10 (IP10) knockout A549 cell lysate
<b>Product overview</b>	Knockout cell lysate achieved by CRISPR/Cas9.  <b>Treatments:</b> Human CXCL10 knockout A549 cell lysate - Brefeldin A (5 µg/ml, 6h) Human wild-type A549 cell lysate - Brefeldin A (5 µg/ml, 6h) Human CXCL10 knockout A549 cell lysate - IFN-γ (100 ng/ml, 32h), TNF-α (10 ng/ml, 32h) and Brefeldin A (5 µg/ml, during the last 6h of IFN-γ/TNF-α treatment) Human wild-type A549 cell lysate - IFN-γ (100 ng/ml, 32h), TNF-α (10 ng/ml, 32h) and Brefeldin A (5 µg/ml, during the last 6h of IFN-γ/TNF-α treatment)
<b>Parental Cell Line</b>	A549
<b>Organism</b>	Human
<b>Mutation description</b>	Knockout achieved by using CRISPR/Cas9, 1 bp insertion 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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## Properties

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

Components	1 kit
ab262033 - Human CXCL10 knockout A549 cell lysate - Brefeldin A treated	1 x 100µg
ab277646 - Human CXCL10 knockout A549 cell lysate - IFN-γ, TNF-α + Brefeldin A treated	1 x 100µg
ab277645 - Human wild-type A549 cell lysate - Brefeldin A treated	1 x 100µg
ab277647 - Human wild-type A549 cell lysate - IFN-γ, TNF-α + Brefeldin A treated	1 x 100µg

**Cell type** epithelial

**Disease** Carcinoma

**STR Analysis** Amelogenin X,Y D5S818: 11 D13S317: 11 D7S820: 8, 11 D16S539: 11, 12 WWA: 14 TH01: 8,9,3 TPOX: 8,11 CSF1PO: 10, 12

## Target

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**Function** Chemotactic for monocytes and T-lymphocytes. Binds to CXCR3.

**Sequence similarities** Belongs to the intercrine alpha (chemokine Cx) family.

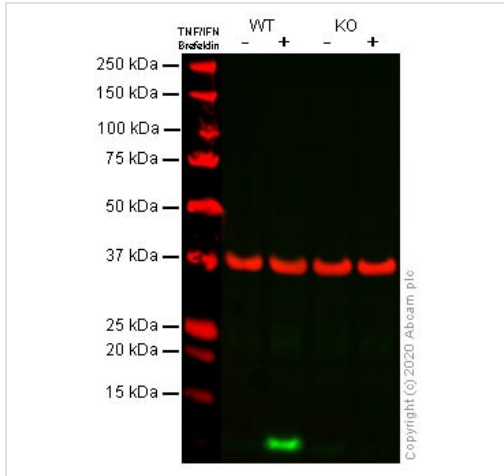
**Post-translational modifications** CXCL10(1-73) is produced by proteolytic cleavage after secretion from keratinocytes.

**Cellular localization** Secreted.

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## Images

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Western blot - Human CXCL10 (IP10) knockout A549 cell lysate (ab256886)

**Lane 1:** Wild-type A549 Brefeldin A (**ab120299**)-treated (5ug/ml, 6h) cell lysate 30 ug

**Lane 2:** Wild-type A549 IFN- $\gamma$  (**ab259377**) (100 ng/ml, 32 h) and TNF- $\alpha$  (**ab259410**) (10 ng/ml) for 32 hours, and Brefeldin A (**ab120299**)-treated (5ug/ml for the last 6h) cell lysate 30 ug

**Lane 3:** IP10 knockout A549 Brefeldin A (**ab120299**)-treated (5ug/ml, 6h) cell lysate 30 ug

**Lane 4:** IP10 knockout A549 IFN- $\gamma$  (**ab259377**) (100 ng/ml, 32 h) and TNF- $\alpha$  (**ab259410**) (10 ng/ml) for 32 hours, and Brefeldin A (**ab120299**)-treated (5ug/ml for the last 6h) cell lysate 30 ug

**Lanes 1 - 4:** Merged signal (red and green). Green - **ab137018** observed at 11 kDa. Red - loading control, **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

**ab137018** was shown to react with IP10 in wild-type A549 cells in western blot with loss of signal observed in IP10 knockout cell line **ab266969** (IP10 knockout cell lysate ab256886). A549 wild-type and IP10 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with **ab137018** and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 500 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Sanger Sequencing - Human CXCL10 knockout A549 cell lysate (ab256886)

Homozygous: 1 bp insertion in exon2

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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