

Product datasheet

Human CXCL10 (IP10) knockout A549 cell lysate ab256886

2 Images

Overview

Product name	Human CXCL10 (IP10) knockout A549 cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9. Treatments: 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)
Parental Cell Line	A549
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 1 bp insertion in exon2.
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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Properties

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

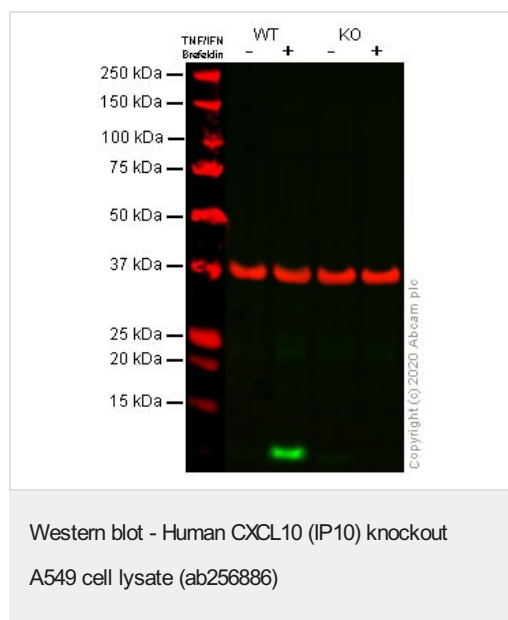
Function Chemotactic for monocytes and T-lymphocytes. Binds to CXCR3.

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.

Images



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

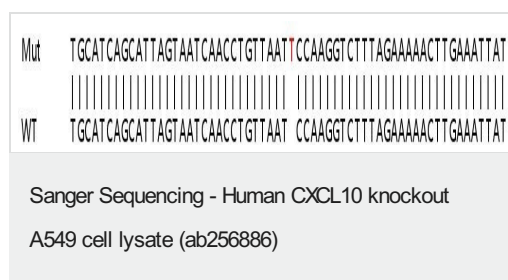
Lane 2: Wild-type A549 IFN- γ ([ab259377](#)) (100 ng/ml, 32 h) and TNF- α ([ab259410](#)) (10 ng/ml) for 32 hours, and Brefeldin A ([ab120299](#))-treated (5ug/ml for the last 6h) cell lysate 30 ug

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

Lane 4: IP10 knockout A549 IFN- γ ([ab259377](#)) (100 ng/ml, 32 h) and TNF- α ([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.



Homozygous: 1 bp insertion in exon2

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