

## Product datasheet

# Human SAMD9 knockout A549 cell lysate ab257656

2 Images

### Overview

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<b>Product name</b>	Human SAMD9 knockout A549 cell lysate
<b>Product overview</b>	Knockout cell lysate achieved by CRISPR/Cas9.
<b>Parental Cell Line</b>	A549
<b>Organism</b>	Human
<b>Mutation description</b>	Knockout achieved by using CRISPR/Cas9, Homozygous: 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.

*\*Usage of SDS sample buffer is not recommended with these lyophilized lysates.*

**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

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

Components	1 kit
ab263578 - Human SAMD9 knockout A549 cell lysate	1 x 100µg
ab255554 - Human wild-type A549 cell lysate	1 x 100µg

**Cell type** epithelial

**Disease** Carcinoma

**STR Analysis** Amelogenin X,YD5S818: 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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**Tissue specificity** Widely expressed. Very low levels in skeletal muscle. Not detected in fetal brain. Down-regulated in aggressive fibromatosis, as well as in breast and colon cancers.

**Involvement in disease** Defects in SAMD9 are the cause of normophosphatemic familial tumoral calcinosis (NFTC) [MIM:610455]. NFTC is an uncommon life-threatening disorder characterized by massive periarticular, and seldom visceral, deposition of calcified tumors.

**Sequence similarities** Contains 1 SAM (sterile alpha motif) domain.

**Cellular localization** Cytoplasm.

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## Applications

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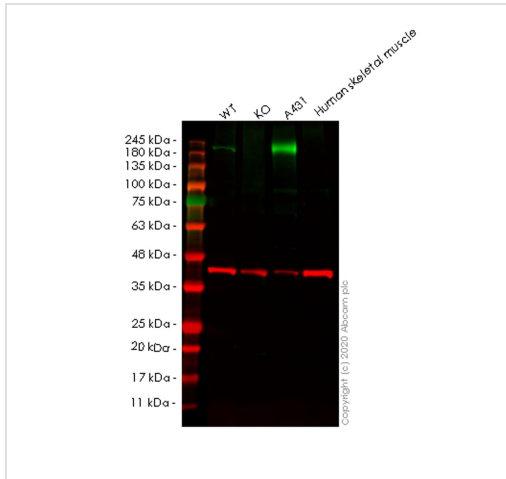
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab257656 in the following tested applications.

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: 184 kDa.

## Images

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Western blot - Human SAMD9 knockout A549 cell lysate (ab257656)

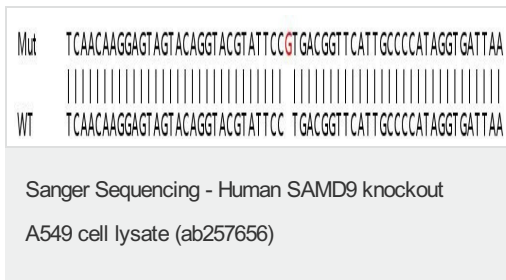
**Lane 1:** Wild-type A549 cell lysate (20 ug)

**Lane 2:** SAMD9 knockout A549 cell lysate (20 ug)

**Lane 3:** A431 cell lysate (20 ug)

**Lane 4:** Human skeletal muscle cell lysate (20 ug)

[ab180575](#) was shown to specifically react with SAMD9 in wild-type A549 cells. Loss of signal was observed when knockout cell line [ab267038](#) (knockout cell lysate [ab257656](#)) was used. Wild-type and SAMD9 knockout samples were subjected to SDS-PAGE. [ab180575](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at room temperature for 2.5 hours 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.



Sanger Sequencing - Human SAMD9 knockout A549 cell lysate (ab257656)

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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