abcam

Product datasheet

Human SRGN (Serglycin) knockout HeLa cell line ab265911

2 Images

Overview

Product name Human SRGN (Serglycin) knockout HeLa cell line

Parental Cell Line HeLa
Organism Human

Mutation description Knockout achieved by using CRISPR/Cas9, 1 bp deletion in exon 1 and 5 bp deletion in exon 1

Passage number <20

Knockout validation Sanger Sequencing

Biosafety level 2

General notes Recommended control: Human wild-type HeLa cell line (<u>ab255928</u>). 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.

Cryopreservation cell medium: Cell Freezing Medium-DMSO Serum free media, contains 8.7% DMSO in MEM supplemented with methyl cellulose.

Culture medium: DMEM (High Glucose) + 10% FBS

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.

- 1. Thaw the vial in 37°C water bath for approximately 1-2 minutes.
- 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.
- 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 2x10⁴ cells/cm². Seeding density is given as a guide only and should be scaled to align with individual lab schedules.
- 4. Incubate the culture at 37°C incubator with 5% CO₂. Cultures should be monitored daily.

Subculture guidelines:

All seeding densities should be based on cell counts gained by established methods. A guide seeding density of $2x10^4$ cells/cm² is recommended.

A partial media change 24 hours prior to subculture may be helpful to encourage growth, if

1

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.

Properties

Number of cells 1 x 10⁶ 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

Storage instructions Shipped on Dry Ice. Store in liquid nitrogen.

Storage buffer Constituents: 8.7% Dimethylsulfoxide, 2% Cellulose, methyl ether

Target

Function Plays a role in formation of mast cell secretory granules and mediates storage of various

compounds in secretory vesicles. Required for storage of some proteases in both connective tissue and mucosal mast cells and for storage of granzyme B in T lymphocytes. Plays a role in localizing neutrophil elastase in azurophil granules of neutrophils. Mediates processing of MMP2. Plays a role in cytotoxic cell granule-mediated apoptosis by forming a complex with granzyme B which is delivered to cells by perforin to induce apoptosis. Regulates the secretion of TNF-alpha

and may also regulate protease secretion. Inhibits bone mineralization.

Sequence similarities Belongs to the serglycin family.

Post-translational modifications

O-glcosylated; contains chondroitin sulfate and heparan sulfate.

Cytoplasmic granule. Secreted > extracellular space. Golgi apparatus. Found in mast cell

granules and in cytoplasmic granules of cytolytic T lymphocytes from where it is secreted upon cell activation. Secreted constitutively by endothelial cells and macrophages. Located to Golgi

apparatus during neutrophil differentiation.

Images

	Mut	TTGGTCATGATGCAGAAGCTACTCAAGTCGGCTTGTCCTGGCTCTTGCCCTCATC	
	WT	TTGGTCATGATGCAGAAGCTACTCAAATGCAGTCGGCTTGTCCTGGCTCTTGCCCTCATC	
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Sanger Sequencing - Human SRGN knockout HeLa			
	cel	l line (ab265911)	

Allele-1: 5 bp deletion in exon 1.

Mut TTGGTCATGATGCAGAAGCTACTCAA-TGCAGTCGGCTTGTCCTGGCTCTTGCCCT WT TTGGTCATGATGCAGAAGCTACTCAAATGCAGTCGGCTTGTCCTGGCTCTTGCCCT	2		
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Mut TTGGTCATGATGCAGAAGCTACTCAA-TGCAGTCGGCTTGTCCTGGCTCTTGCCCT			
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cell line (ab265911)

Allele-2: 1 bp deletion in exon 1.

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