

Product datasheet

Human EGF knockout HeLa cell lysate ab256898

2 Images

Overview

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<b>Product name</b>	Human EGF knockout HeLa cell lysate
<b>Product overview</b>	Knockout cell lysate achieved by CRISPR/Cas9.
<b>Parental Cell Line</b>	HeLa
<b>Organism</b>	Human
<b>Mutation description</b>	Knockout achieved by using CRISPR/Cas9, 1 bp insertion in exon4 and 2 bp deletion in exon4.
<b>Passage number</b>	<20
<b>Knockout validation</b>	Sanger Sequencing
<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:** After reconstitution, store the lysate at -80°C.

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
ab260916 - Human EGF knockout HeLa cell lysate (Lyophilized)	1 x 100µg
ab255929 - Human Wild Type HeLa cell lysate (Lyophilized)	1 x 100µg

<b>Cell type</b>	epithelial
<b>Disease</b>	Adenocarcinoma
<b>Gender</b>	Female
<b>STR Analysis</b>	Amelogenin X D5S818: 11, 12 D13S317: 12, 13.3 D7S820: 8, 12 D16S539: 9, 10 WWA: 16, 18 TH01: 7 TPOX: 8,12 CSF1PO: 9, 10

**Target**

<b>Function</b>	EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Magnesiotropic hormone that stimulates magnesium reabsorption in the renal distal convoluted tubule via engagement of EGFR and activation of the magnesium channel TRPM6. Can induce neurite outgrowth in motoneurons of the pond snail <i>Lymnaea stagnalis</i> in vitro (PubMed:10964941).
<b>Tissue specificity</b>	Expressed in kidney, salivary gland, cerebrum and prostate.
<b>Involvement in disease</b>	Hypomagnesemia 4
<b>Sequence similarities</b>	Contains 9 EGF-like domains. Contains 9 LDL-receptor class B repeats.
<b>Post-translational modifications</b>	O-glycosylated with core 1-like and core 2-like glycans. It is uncertain if Ser-954 or Thr-955 is O-glycosylated. The modification here shows glycan heterogeneity: HexHexNAc (major) and Hex2HexNAc2 (minor).
<b>Cellular localization</b>	Membrane.

**Images**

Mut	ATAACAGCTGTGT CATTGGATGTGCTTGAT - - GCGGCTGTTTTGGATT CAGTACAACAGA
WT	ATAACAGCTGTGT CATTGGATGTGCTTGAT AAGCGGCTGTTTTGGATT CAGTACAACAGA
Sanger Sequencing - Human EGF knockout HeLa cell lysate (ab256898)	

Allele-1: 2 bp deletion in exon4

Mut	ATAACAGCTGTGT CATTGGATGTGCTTGAT AAGCGGCTGTTTTGGATT CAGTACAACAG
WT	ATAACAGCTGTGT CATTGGATGTGCTTGAT AAGCGGCTGTTTTGGATT CAGTACAACAG
Sanger Sequencing - Human EGF knockout HeLa cell lysate (ab256898)	

Allele-2: 1 bp insertion in exon4

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

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