

# MEF ULK1 KO (SIM) Cell Line

**Catalogue number:** 151715

**Sub-type:**

**Images:**

## Contributor

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**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** MEF ULK1 KO (SIM) Cell Line

**Alternate name:**

**Class:**

**Conjugate:**

**Description:** The MEF ULK1 KO (SIM) cell line can be used to study ULK1-dependent processes, including autophagy. A more complete phenotype requires depletion of ULK2 by RNAi . Mouse embryonic fibroblasts derived from a ULK1 homozygous knock out mouse embryo and immortalized by serial passaging (spontaneous transformation).

**Purpose:**

**Parental cell:**

**Organism:** Mouse

**Tissue:** Embryo

**Model:** Knock-Out

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:** Autophagy, fibroblast

**Production details:** Primary embryonic fibroblasts were isolated from the embryos of a pregnant female Ulk1-/- mouse at day 13p.c. The MEFs were immortalised by SIM using a standard serial passaging protocol.

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** ULK1

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**

**Application notes:**

## Handling

**Format:** Frozen

**Concentration:**

**Passage number:**

**Growth medium:** DMEM + 20% FCS + 2mM Glutamine + pen/strep

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:**

**Shipping conditions:** Dry ice

## Related tools

**Related tools:** MEF ULK1/2 WT (SIM) Cell Line ; MEF ULK2 KO (SIM) Cell Line ; MEF ULK1 ULK2 DKO (SIM) Cell Line ; MEF ULK1 ULK2 DKO (SV40) Cell Line ; MEF ULK1/2 WT(SV40) Cell Line ; MEF ULK1 KO (SV40) Cell Line ; MEF ULK2 KO (SV40) Cell Line

## References

**References:** McAlpine et al. 2013. Autophagy. 9(3):361-73. PMID: 23291478. ; Regulation of nutrient-sensitive autophagy by uncoordinated 51-like kinases 1 and 2. ; Chan et al. 2009. Mol Cell Biol. 29(1):157-71. PMID: 18936157. ; Kinase-inactivated ULK proteins inhibit autophagy via their conserved C-terminal domains using an Atg13-independent mechanism.

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