

# PNPLA1 Knockout mouse

**Catalogue number:** 160873

**Sub-type:** Mouse

**Images:**

## Contributor

**Inventor:** Franz Radner

**Institute:** University of Graz

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** PNPLA1 Knockout mouse

**Alternate name:** PNPLA1

**Class:**

**Conjugate:**

**Description:** Useful model to study PNPLA1-deficient deficiency. Animals might be useful for studies, e.g. on skin development/barrier function or omega-O-acylceramide metabolism, or as model for Autosomal Recessive Congenital Ichthyosis (ARCI). Mice homozygous for the mutation die shortly after birth due to increased transepidermal water loss.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:** Knock-Out

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:** A floxed neomycin resistance cassette was inserted upstream of exon 1. An additional loxP site was inserted downstream of exon 1. Cre-mediated recombination removed Pnpla1 exon 1 and the selection cassette . Further details are available upon request.

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Patatin-like phospholipase domain containing 1, ichthyosis, ARCI

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**

**Application notes:**

## Handling

**Format:**

**Concentration:**

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:**

**Shipping conditions:**

## Related tools

**Related tools:** PNPLA1-flox mouse

## References

**References:** Grond et al. 2017. J Invest Dermatol. 137(2):394-402. PMID: 27751867.

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