

Resource Summary Report

Generated by [Kravitz](#) on Sep 19, 2026

ALDP/ApoE KO

RRID:IMSR_RBRC03298

Type: Organism

Proper Citation

RRID:IMSR_RBRC03298

Organism Information

URL: <https://brc.riken.jp/mus/RBRC03298>

Proper Citation: RRID:IMSR_RBRC03298

Description: Mus musculus with name ALDP/ApoE KO from IMSR.

Species: Mus musculus

Notes: gene symbol note: apolipoprotein E|ATP-binding cassette; sub-family D member 1;
mutant stock: Apoe|Abcd1

Affected Gene: apolipoprotein E|ATP-binding cassette; sub-family D member 1

Genomic Alteration: targeted mutation|targeted mutation 1; Takeshi Yamada

Catalog Number: RBRC03298

Database: RIKEN BioResource Research Center

Database Abbreviation: RBRC

Availability: embryo

Organism Name: ALDP/ApoE KO

Record Creation Time: 20250513T061451+0000

Record Last Update: 20260919T063211+0000

Ratings and Alerts

No rating or validation information has been found for ALDP/ApoE KO.

No alerts have been found for ALDP/ApoE KO.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: RIKEN BioResource Research Center

Usage and Citation Metrics

We found 53 mentions in open access literature.

Listed below are recent publications. The full list is available at [Kravitz](#) .

Jin S, et al. (2023) Astroglial exosome HepaCAM signaling and ApoE antagonization coordinates early postnatal cortical pyramidal neuronal axon growth and dendritic spine formation. bioRxiv : the preprint server for biology.

Huang D, et al. (2023) Epigenetically altered macrophages promote development of diabetes-associated atherosclerosis. Frontiers in immunology, 14, 1196704.

Dato VA, et al. (2023) Transcriptional analysis reveals that the intracellular lipid accumulation impairs gene expression profiles involved in insulin response-associated cardiac functionality. Research square.

Actis Dato V, et al. (2023) Transcriptional analysis reveals that the intracellular lipid accumulation impairs gene expression profiles involved in insulin response-associated cardiac functionality. Scientific reports, 13(1), 8761.

Rietjens RGJ, et al. (2023) Phosphatidylinositol metabolism of the renal proximal tubule S3 segment is disturbed in response to diabetes. Scientific reports, 13(1), 6261.

Numaga-Tomita T, et al. (2023) Inhibition of transient receptor potential cation channel 6 promotes capillary arterIALIZATION during post-ischaemic blood flow recovery. British journal of pharmacology, 180(1), 94.

Wang C, et al. (2023) APOE- ϵ 4 synergizes with sleep disruption to accelerate A β deposition and A β -associated tau seeding and spreading. The Journal of clinical investigation, 133(14).

Huang WC, et al. (2022) Endurance exercise ameliorates Western diet-induced atherosclerosis through modulation of microbiota and its metabolites. Scientific reports, 12(1), 3612.

Jadli AS, et al. (2022) Attenuation of Smooth Muscle Cell Phenotypic Switching by Angiotensin 1-7 Protects against Thoracic Aortic Aneurysm. International journal of molecular sciences, 23(24).

Jiang T, et al. (2022) Dual targeted delivery of statins and nucleic acids by chitosan-based nanoparticles for enhanced antiatherosclerotic efficacy. Biomaterials, 280, 121324.

Shimba Y, et al. (2021) Skeletal muscle-specific forkhead box protein-O1 overexpression suppresses atherosclerosis progression in apolipoprotein E-knockout mice. Biochemical

and biophysical research communications, 540, 61.

Varasteh Z, et al. (2021) Imaging atherosclerotic plaques by targeting Galectin-3 and activated macrophages using (89Zr)-DFO- Galectin3-F(ab')₂ mAb. *Theranostics*, 11(4), 1864.

Ma Q, et al. (2021) Platelet-derived extracellular vesicles to target plaque inflammation for effective anti-atherosclerotic therapy. *Journal of controlled release : official journal of the Controlled Release Society*, 329, 445.

Miki S, et al. (2021) S-1-Propenylcysteine promotes IL-10-induced M2c macrophage polarization through prolonged activation of IL-10R/STAT3 signaling. *Scientific reports*, 11(1), 22469.

Honda S, et al. (2021) Cellular senescence promotes endothelial activation through epigenetic alteration, and consequently accelerates atherosclerosis. *Scientific reports*, 11(1), 14608.

Xia N, et al. (2021) Regulation of NADPH Oxidase-Mediated Superoxide Production by Acetylation and Deacetylation. *Frontiers in physiology*, 12, 693702.

Shiomi M, et al. (2020) The History of the WHHL Rabbit, an Animal Model of Familial Hypercholesterolemia (II) - Contribution to the Development and Validation of the Therapeutics for Hypercholesterolemia and Atherosclerosis. *Journal of atherosclerosis and thrombosis*, 27(2), 119.

Paz MC, et al. (2020) Metabolic Syndrome Triggered by Fructose Diet Impairs Neuronal Function and Vascular Integrity in ApoE-KO Mouse Retinas: Implications of Autophagy Deficient Activation. *Frontiers in cell and developmental biology*, 8, 573987.

Zhang X, et al. (2020) High-protein diets increase cardiovascular risk by activating macrophage mTOR to suppress mitophagy. *Nature metabolism*, 2(1), 110.

Zhong Z, et al. (2020) T cell co-stimulator inducible co-stimulatory (ICOS) exerts potential anti-atherosclerotic roles through downregulation of vascular smooth muscle phagocytosis and proliferation. *Annals of translational medicine*, 8(23), 1597.