# Resource Summary Report

Generated by dkNET on Sep 10, 2026

## B6;129S-*Myh9*$^{tm5Rsad}$/Mmnc

RRID:MMRRC_032096-UNC
Type: Organism

### Proper Citation

RRID:MMRRC_032096-UNC

### Organism Information

**URL:** https://www.mmrrc.org/catalog/sds.php?mmrrc_id=32096

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**Description:** Mus musculus with name B6;129S-*Myh9*$^{tm5Rsad}$/Mmnc from MMRRC.

**Species:** Mus musculus

**Notes:** Research areas: Cancer, Cell Biology, Dermatology, Developmental Biology, Hematology, Immunology and Inflammation, Internal/Organ, Models for Human Disease, Research Tools, Sensorineural; Mutation Type: Targeted Mutation ; Collection:

**Phenotype:** abnormal T cell physiology [MP:0002444]| albuminuria [MP:0002871]| abnormal leukocyte migration [MP:0003156]| abnormal leukocyte adhesion [MP:0003628]| abnormal CD8-positive [MP:0004392]| alpha-beta T cell physiology [MP:0005264]| glomerulosclerosis [MP:0005326]| abnormal podocyte morphology [MP:0008079]| decreased CD8-positive [MP:0008140]| alpha-beta T cell number [MP:0008828]

**Affected Gene:** Myh9

**Catalog Number:** 032096-UNC

**Background:** Targeted Mutation

**Database:** Mutant Mouse Resource and Research Center (MMRRC)

**Database Abbreviation:** MMRRC

**Source References:** PMID:20835229

**Alternate IDs:** MMRRC_32096-UNC, MMRRC_032096, MMRRC_3296

**Organism Name:** B6;129S-*Myh9*$^{tm5Rsad}$/Mmnc

**Record Creation Time:** 20230308T055126+0000

**Record Last Update:** 20260905T110849+0000

## Ratings and Alerts

No rating or validation information has been found for B6;129S-*Myh9*$^{tm5Rsad}$/Mmnc.

No alerts have been found for B6;129S-*Myh9*$^{tm5Rsad}$/Mmnc.

## Data and Source Information

**Source:** Integrated Animals

**Source Database:** Mutant Mouse Resource and Research Center (MMRRC)

## Usage and Citation Metrics

We found 9 mentions in open access literature.

**Listed below are recent publications.** The full list is available at dkNET .


Sung DC, et al. (2021) Mutations in non-muscle myosin 2A disrupt the actomyosin cytoskeleton in Sertoli cells and cause male infertility. Developmental biology, 470, 49.

Wang XW, et al. (2020) Knocking Out Non-muscle Myosin II in Retinal Ganglion Cells Promotes Long-Distance Optic Nerve Regeneration. Cell reports, 31(3), 107537.

Ma X, et al. (2020) Nonmuscle myosin 2 regulates cortical stability during sprouting angiogenesis. Molecular biology of the cell, 31(18), 1974.

Sumigray KD, et al. (2018) Morphogenesis and Compartmentalization of the Intestinal Crypt. Developmental cell, 45(2), 183.

Haque F, et al. (2017) Non-muscle myosin II deletion in the developing kidney causes ureter-bladder misconnection and apical extrusion of the nephric duct lineage epithelia. Developmental biology, 427(1), 121.

Recuenco MC, et al. (2015) Nonmuscle Myosin II Regulates the Morphogenesis of Metanephric Mesenchyme-Derived Immature Nephrons. Journal of the American Society of Nephrology : JASN, 26(5), 1081.

Conti MA, et al. (2015) Conditional deletion of nonmuscle myosin II-A in mouse tongue epithelium results in squamous cell carcinoma. Scientific reports, 5, 14068.

Crish J, et al. (2013) Keratin 5-Cre-driven excision of nonmuscle myosin IIA in early embryo trophectoderm leads to placenta defects and embryonic lethality. Developmental biology, 382(1), 136.

Zhang Y, et al. (2012) Mouse models of MYH9-related disease: mutations in nonmuscle myosin II-A. Blood, 119(1), 238.