

Resource Summary Report

Generated by [dkNET](#) on Aug 27, 2026

RMA-S

RRID:CVCL_2180

Type: Cell Line

Proper Citation

RRID:CVCL_2180

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_2180

Proper Citation: RRID:CVCL_2180

Description: Cell line RMA-S is a Cancer cell line with a species of origin Mus musculus (Mouse)

Sex: Sex unspecified

Disease: Mouse leukemia

Defining Citation: [PMID:2066183](#), [PMID:11132152](#), [PMID:17982631](#)

Comments: Characteristics: Deficient in antigen processing.

Category: Cancer cell line

Organism: Mus musculus (Mouse)

Name: RMA-S

Synonyms: RMA/S, RMAS

Cross References: BTO:BTO_0006563, ChEMBL-Cells:ChEMBL3307428, ChEMBL-Targets:ChEMBL614880, Lonza:60, PubChem_Cell_line:CVCL_2180, TOKU-E:4090, Wikidata:Q54950645

ID: CVCL_2180

Hierarchy: cvcl_j385

Record Creation Time: 20220427T221502+0000

Record Last Update: 20260815T235644+0000

Ratings and Alerts

No rating or validation information has been found for RMA-S.

No alerts have been found for RMA-S.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Rafieiyan M, et al. (2026) HLA-E-restricted SARS-CoV-2 epitopes drive CD8+ T cell memory in convalescent and vaccinated individuals: implications for the design of next-generation vaccines and immunotherapeutics. *Journal of translational medicine*, 24(1), 280.

Guleed S, et al. (2026) CD8+ T cell responses recognizing immunodominant Chlamydia antigens fail to protect against infection. *iScience*, 29(4), 115242.

Chen X, et al. (2026) Dopaminergic modulation of NK cell maturation and immune-associated social behavior in a 15q dup mouse model. *Brain, behavior, and immunity*, 135, 106527.

Schimmer S, et al. (2025) Dietary lipid overload creates a suppressive environment that impedes the antiviral functions of NK cells. *iScience*, 28(5), 112396.

Duhan V, et al. (2025) FcR γ -Dependent NK Cell Licensing through CD244 Promotes Antitumor Immunity. *Cancer immunology research*, 13(12), 2075.

Shi Y, et al. (2024) The E3 Ubiquitin Ligase FBXO38 Maintains the Antitumor Function of Natural Killer Cells by Sustaining IL15R Signaling. *Cancer immunology research*, 12(10), 1438.

Rožmanić C, et al. (2023) Perinatal murine cytomegalovirus infection reshapes the transcriptional profile and functionality of NK cells. *Nature communications*, 14(1), 6412.

Stone ET, et al. (2022) Balanced T and B cell responses are required for immune protection against Powassan virus in virus-like particle vaccination. *Cell reports*, 38(7), 110388.

Aghayev T, et al. (2022) IL27 Signaling Serves as an Immunologic Checkpoint for Innate Cytotoxic Cells to Promote Hepatocellular Carcinoma. *Cancer discovery*, 12(8), 1960.

Tcyganov EN, et al. (2022) Peroxynitrite in the tumor microenvironment changes the profile of antigens allowing escape from cancer immunotherapy. *Cancer cell*, 40(10),

1173.

Wong P, et al. (2021) Flow cytometry-based ex vivo murine NK cell cytotoxicity assay. STAR protocols, 2(1), 100262.

Wagner JA, et al. (2020) Stage-Specific Requirement for Eomes in Mature NK Cell Homeostasis and Cytotoxicity. Cell reports, 31(9), 107720.

Tsuchiya N, et al. (2019) Type I Interferon Delivery by iPSC-Derived Myeloid Cells Elicits Antitumor Immunity via XCR1+ Dendritic Cells. Cell reports, 29(1), 162.

Wolf Y, et al. (2019) UVB-Induced Tumor Heterogeneity Diminishes Immune Response in Melanoma. Cell, 179(1), 219.

Gejman RS, et al. (2018) Rejection of immunogenic tumor clones is limited by clonal fraction. eLife, 7.