

Resource Summary Report

Generated by [NIF](#) on Aug 23, 2026

Rat Anti-IgG3 Monoclonal Antibody, FITC Conjugated, Clone R40-82

RRID:AB_394840

Type: Antibody

Proper Citation

BD Biosciences Cat# 553403, RRID:AB_394840

Antibody Information

URL: http://antibodyregistry.org/AB_394840

Proper Citation: BD Biosciences Cat# 553403, RRID:AB_394840

Target Antigen: IgG3

Host Organism: rat

Clonality: monoclonal

Comments: Flow cytometry, Intracellular staining (flow Cytotoxicityometry)

Antibody Name: Rat Anti-IgG3 Monoclonal Antibody, FITC Conjugated, Clone R40-82

Description: This monoclonal targets IgG3

Target Organism: mouse

Clone ID: R40-82

Antibody ID: AB_394840

Vendor: BD Biosciences

Catalog Number: 553403

Record Creation Time: 20250820T032118+0000

Record Last Update: 20250820T160150+0000

Ratings and Alerts

No rating or validation information has been found for Rat Anti-IgG3 Monoclonal Antibody, FITC Conjugated, Clone R40-82.

No alerts have been found for Rat Anti-IgG3 Monoclonal Antibody, FITC Conjugated, Clone R40-82.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 22 mentions in open access literature.

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

Dai P, et al. (2025) Transcription-coupled AID deamination damage depends on ELOF1-associated RNA polymerase II. *Molecular cell*, 85(7), 1280.

Libri AB, et al. (2025) Senataxin promotes recombination fidelity during antigen receptor gene diversification. *Science signaling*, 18(908), eadv8801.

Mengrelis K, et al. (2025) IL-2 Complex Therapy Mitigates Humoral Rejection of Fully Mismatched Skin Allografts by Inhibiting IgG Alloantibody Formation. *Cells*, 14(14).

Wang Y, et al. (2024) High recallability of memory B cells requires ZFP318-dependent transcriptional regulation of mitochondrial function. *Immunity*, 57(8), 1848.

Wiehe K, et al. (2024) Mutation-guided vaccine design: A process for developing boosting immunogens for HIV broadly neutralizing antibody induction. *Cell host & microbe*, 32(5), 693.

Csepregi L, et al. (2024) The physiological landscape and specificity of antibody repertoires are consolidated by multiple immunizations. *eLife*, 13.

Guan F, et al. (2023) GSDMA3 deficiency reprograms cellular metabolism and modulates BCR signaling in murine B cells. *iScience*, 26(8), 107341.

Chen X, et al. (2022) Protocol to identify and monitor key mutations of broadly neutralizing antibody lineages following sequential immunization of Ig-humanized mice. *STAR protocols*, 3(1), 101180.

Mu Z, et al. (2022) mRNA-encoded HIV-1 Env trimer ferritin nanoparticles induce monoclonal antibodies that neutralize heterologous HIV-1 isolates in mice. *Cell reports*, 38(11), 110514.

Ruan GX, et al. (2022) The spliceosome component Usp39 controls B cell development by regulating immunoglobulin gene rearrangement. *Cell reports*, 38(6), 110338.

Knudsen ML, et al. (2022) Adjuvants influence the maturation of VRC01-like antibodies during immunization. *iScience*, 25(11), 105473.

Bayley R, et al. (2022) H3K4 methylation by SETD1A/BOD1L facilitates RIF1-dependent NHEJ. *Molecular cell*, 82(10), 1924.

Liang Q, et al. (2022) RBD trimer mRNA vaccine elicits broad and protective immune responses against SARS-CoV-2 variants. *iScience*, 25(4), 104043.

Chen X, et al. (2021) Vaccination induces maturation in a mouse model of diverse unmutated VRC01-class precursors to HIV-neutralizing antibodies with >50% breadth. *Immunity*, 54(2), 324.

Nair L, et al. (2021) Mechanism of noncoding RNA-associated N6-methyladenosine recognition by an RNA processing complex during IgH DNA recombination. *Molecular cell*, 81(19), 3949.

Doron I, et al. (2021) Human gut mycobiota tune immunity via CARD9-dependent induction of anti-fungal IgG antibodies. *Cell*, 184(4), 1017.

Shen HM, et al. (2021) Loop extrusion promotes an alternate pathway for isotype switching. *Cell reports*, 37(8), 110059.

Yewdell WT, et al. (2020) A Hyper-IgM Syndrome Mutation in Activation-Induced Cytidine Deaminase Disrupts G-Quadruplex Binding and Genome-wide Chromatin Localization. *Immunity*, 53(5), 952.

Lin YR, et al. (2020) HIV-1 VRC01 Germline-Targeting Immunogens Select Distinct Epitope-Specific B Cell Receptors. *Immunity*, 53(4), 840.

Yen WF, et al. (2019) Distinct Requirements of CHD4 during B Cell Development and Antibody Response. *Cell reports*, 27(5), 1472.