

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 9, 2026

VRC01 antibody

RRID:AB_2491019

Type: Antibody

Proper Citation

bNAber Cat# bNAberID_1, RRID:AB_2491019

Antibody Information

URL: http://antibodyregistry.org/AB_2491019

Proper Citation: bNAber Cat# bNAberID_1, RRID:AB_2491019

Target Antigen: HIV-1 Envelope CD4 binding site

Host Organism: human

Clonality: monoclonal

Comments: Donor is Donor 45

Antibody Name: VRC01 antibody

Description: This monoclonal targets HIV-1 Envelope CD4 binding site

Target Organism: human

Defining Citation: [PMID:20616233](#)

Antibody ID: AB_2491019

Vendor: bNAber

Catalog Number: bNAberID_1

Record Creation Time: 20250819T231640+0000

Record Last Update: 20250820T045038+0000

Ratings and Alerts

No rating or validation information has been found for VRC01 antibody.

No alerts have been found for VRC01 antibody.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 46 mentions in open access literature.

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

Acciani M, et al. (2026) Human neutralizing antibodies targeting the measles virus hemagglutinin and fusion surface proteins. *Cell host & microbe*, 34(6), 1067.

Abu-Shmais AA, et al. (2026) A potently neutralizing and protective human antibody targeting antigenic site V on RSV and hMPV fusion glycoprotein. *Cell reports. Medicine*, 7(2), 102564.

Fan Q, et al. (2025) A distinctive IGHV3-66 SARS-CoV-2 neutralizing antibody elicited by primary infection with an Omicron variant. *Structure (London, England : 1993)*, 33(7), 1165.

Benlarbi M, et al. (2025) CD4 T cell counts are inversely correlated with anti-gp120 cluster A antibodies in antiretroviral therapy-treated PLWH. *EBioMedicine*, 118, 105856.

Wasdin PT, et al. (2025) Generation of antigen-specific paired-chain antibodies using large language models. *Cell*, 188(25), 7206.

Honnayakanahalli Marichannegowda M, et al. (2025) Genetic signatures in the highly virulent subtype B human immunodeficiency virus-1 conferring resistance to broadly neutralizing antibodies. *iScience*, 28(7), 112847.

Ju B, et al. (2025) Structurally conserved human anti-A35 antibodies protect mice and macaques from mpox virus infection. *Cell*.

Li W, et al. (2025) Structure and function of a pair of non-competing monoclonal antibodies against Langya henipavirus attachment glycoprotein. *Cell reports*, 44(10), 116407.

Lebedin M, et al. (2024) Soluble ACE2 correlates with severe COVID-19 and can impair antibody responses. *iScience*, 27(3), 109330.

Zhang Z, et al. (2024) Membrane HIV-1 envelope glycoproteins stabilized more strongly in a pretriggered conformation than natural virus Envs. *iScience*, 27(7), 110141.

Duan H, et al. (2024) Long trimer-immunization interval and appropriate adjuvant reduce immune responses to the soluble HIV-1-envelope trimer base. *iScience*, 27(2), 108877.

Chand D, et al. (2024) Botensilimab, an Fc-Enhanced Anti-CTLA-4 Antibody, Is Effective against Tumors Poorly Responsive to Conventional Immunotherapy. *Cancer discovery*, 14(12), 2407.

Cale EM, et al. (2024) A multidonor class of highly glycan-dependent HIV-1 gp120-gp41 interface-targeting broadly neutralizing antibodies. *Cell reports*, 43(12), 115010.

Pilewski KA, et al. (2023) Functional HIV-1/HCV cross-reactive antibodies isolated from a chronically co-infected donor. *Cell reports*, 42(2), 112044.

Ju B, et al. (2023) Omicron BQ.1.1 and XBB.1 unprecedentedly escape broadly neutralizing antibodies elicited by prototype vaccination. *Cell reports*, 42(6), 112532.

Wang S, et al. (2023) HIV-1 neutralizing antibodies elicited in humans by a prefusion-stabilized envelope trimer form a reproducible class targeting fusion peptide. *Cell reports*, 42(7), 112755.

Zhou T, et al. (2022) Structural basis for llama nanobody recognition and neutralization of HIV-1 at the CD4-binding site. *Structure (London, England : 1993)*, 30(6), 862.

Pegu A, et al. (2022) Potent anti-viral activity of a trispecific HIV neutralizing antibody in SHIV-infected monkeys. *Cell reports*, 38(1), 110199.

Mangala Prasad V, et al. (2022) Cryo-ET of Env on intact HIV virions reveals structural variation and positioning on the Gag lattice. *Cell*, 185(4), 641.

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.