

Resource Summary Report

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IgBLAST

RRID:SCR_002873

Type: Tool

Proper Citation

IgBLAST (RRID:SCR_002873)

Resource Information

URL: <http://www.ncbi.nlm.nih.gov/igblast/>

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Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on January 4, 2023. IgBLAST was developed at NCBI to facilitate analysis of immunoglobulin V region sequences in GenBank. In addition to performing a regular BLAST search, IgBLAST has several additional functions: - Reports the germline V, D and J gene matches to the query sequence. - Annotates the immunoglobulin domains (FWR1 through FWR3). - Matches the returned hits (for databases other than germline genes) to the closest germline V genes, making it easier to identify related sequences. - Reveals the V(D)J junction details such as nucleotide homology between the ends of V(D)J segments and N nucleotide insertions. D and J gene reporting is only for nucleotide sequence search and requires a stretch of five or more nucleotide identity between the query and D or J genes. Sponsors: This resource is supported by the National Center for Biotechnology Information, a division of the U.S. National Library of Medicine.

Synonyms: IgBLAST

Resource Type: software application, software resource

Defining Citation: [PMID:23671333](#)

Keywords: gene, analysis, domain, homology, immunoglobulin v, nucleotide, sequence, bio.tools

Availability: Free, Freely available

Resource Name: IgBLAST

Resource ID: SCR_002873

Alternate IDs: nif-0000-25554, biotools:igblast, OMICS_06083

Alternate URLs: <https://bio.tools/igblast>, <https://sources.debian.org/src/ncbi-igblast/>

Record Creation Time: 20220129T080215+0000

Record Last Update: 20260810T040335+0000

Ratings and Alerts

No rating or validation information has been found for IgBLAST.

No alerts have been found for IgBLAST.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 625 mentions in open access literature.

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

Kang Y, et al. (2026) Comparative evaluation of two NGS-based assays for somatic hypermutation analysis of IGHV genes in chronic lymphocytic leukemia. Blood research, 61(1).

Bai S, et al. (2026) Discovery and Structural Characterization of a Highly Protective Neutralizing Antibody Targeting the Mpox Virus A35R Protein. MedComm, 7(7), e70804.

Kim S, et al. (2026) Gut microbiota transfer from autoimmune dry eye mice imprints stereotypic B cell receptor repertoires in the lacrimal gland and induces disease. Frontiers in immunology, 17, 1827057.

Niyongabo A, et al. (2026) Structural and genetic basis for broad antibody recognition of a protective epitope on orthomareburgvirus GP2. Cell reports, 45(6), 117536.

Daniel K, et al. (2026) Pre-existing neutralizing antibodies against cattle-transmitted influenza A virus H5N1 are detectable in unexposed individuals. Immunity, 59(2), 494.

Zhou P, et al. (2026) B lymphocytes that enter the germinal center late preferentially differentiate into memory cells that recognize subdominant epitopes. Immunity, 59(4), 1025.

Zeng Q, et al. (2026) Intratumoral Tertiary Lymphoid Structures Characterized by a B Cell-Related Signature Elicit Antitumor Effect through HAPLN3 in Hepatocellular Carcinoma. Cancer immunology research, 14(5), 771.

Nathan N, et al. (2026) Tumor-draining lymph nodes in ovarian cancer lack germinal centers but harbor tumor-reactive memory B cells clonally linked to intra-tumoral B cells. Immunity, 59(6), 1743.

Cervantes Rincón T, et al. (2026) Analysis of West Nile disease convalescents identifies human monoclonal antibodies protective against West Nile and related orthoflaviviruses. *Immunity*, 59(7), 2015.

Fournier M, et al. (2026) Affinity-matured B cell responses neutralizing type-I interferons underlie severe viral infections. *Cell*, 189(11), 3236.

Halfmann PJ, et al. (2025) Multivalent S2 subunit vaccines provide broad protection against Clade 1 sarbecoviruses in female mice. *Nature communications*, 16(1), 462.

Kochayoo P, et al. (2025) Atypical memory B cells from natural malaria infection produced broadly neutralizing antibodies against *Plasmodium vivax* variants. *PLoS pathogens*, 21(1), e1012866.

Siu JHY, et al. (2025) Early lymph node T follicular helper cell signalling hub drives influenza vaccine response in an ancestrally diverse cohort. *EBioMedicine*, 122, 106036.

Hanna SJ, et al. (2025) The Type 1 Diabetes T Cell Receptor and B Cell Receptor Repository in the AIRR Data Commons: a practical guide for access, use and contributions through the Type 1 Diabetes AIRR Consortium. *Diabetologia*, 68(1), 186.

Ryback AA, et al. (2025) Deep sequencing of BCR heavy chain repertoires in myalgic encephalomyelitis/chronic fatigue syndrome. *Frontiers in immunology*, 16, 1489312.

Rosenfeld R, et al. (2025) Efficient Identification of Monoclonal Antibodies Against Rift Valley Fever Virus Using High-Throughput Single Lymphocyte Transcriptomics of Immunized Mice. *Antibodies (Basel, Switzerland)*, 14(1).

Ren X, et al. (2025) Rapid generation of antigen-specific monoclonal antibodies from single mouse B cells. *Biophysics reports*, 11(4), 246.

Merico D, et al. (2025) Pre-T cell receptor-? immunodeficiency detected exclusively using whole genome sequencing. *NPJ genomic medicine*, 10(1), 2.

Jian F, et al. (2025) Evolving antibody response to SARS-CoV-2 antigenic shift from XBB to JN.1. *Nature*, 637(8047), 921.

Wilbrink R, et al. (2025) B Cell Receptor Repertoire Analysis of the CD21lo B Cell Compartment in Healthy Individuals, Patients With Sjögren's Disease, and Patients With Radiographic Axial Spondyloarthritis. *European journal of immunology*, 55(2), e202451398.