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: 20260829T183042+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 orthomarburgvirus 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.

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.

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.

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.

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.

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.

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.