

Resource Summary Report

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Immune Epitope Database and Analysis Resource (IEDB)

RRID:SCR_006604

Type: Tool

Proper Citation

Immune Epitope Database and Analysis Resource (IEDB) (RRID:SCR_006604)

Resource Information

URL: <https://www.iedb.org/>

Proper Citation: Immune Epitope Database and Analysis Resource (IEDB) (RRID:SCR_006604)

Description: Repository contains antibody/B cell and T cell epitope information and epitope prediction and analysis tools. Immune epitopes are defined as molecular structures recognized by specific antigen receptors of the immune system, namely antibodies, B cell receptors, and T cell receptors. Immune epitopes from infectious diseases, excluding HIV, and immune-mediated diseases and the accompanying biological information are included.

Abbreviations: IEDB

Synonyms: Immune Epitope Database and Analysis Resource, , IEDB

Resource Type: data repository, service resource, data analysis service, storage service resource, production service resource, analysis service resource

Defining Citation: [PMID:39558162](#)

Keywords: human, non-human primate, rodent, pig, cat, non-human animal, t cell, b cell, epitope, infectious disease, major histocompatibility complex, bio.tools, FASEB list

Funding: niad

Availability: open

Resource Name: Immune Epitope Database and Analysis Resource (IEDB)

Resource ID: SCR_006604

Alternate IDs: nif-0000-03017, biotools:iedb, r3d100012702

Alternate URLs: <https://nextgen-tools.iedb.org/>, <https://doi.org/10.17616/R3X217>

License URLs: https://www.iedb.org/terms_of_use_v3.php

Record Creation Time: 20220129T080237+0000

Record Last Update: 20260731T042725+0000

Ratings and Alerts

No rating or validation information has been found for Immune Epitope Database and Analysis Resource (IEDB).

No alerts have been found for Immune Epitope Database and Analysis Resource (IEDB).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 383 mentions in open access literature.

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

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.

Wang R, et al. (2025) An epitope-directed mRNA vaccine inhibits tumor metastasis through the blockade of MICA/B α 1/2 shedding. Cell reports. Medicine, 6(3), 101981.

He S, et al. (2025) Comprehensive assessment of computational methods for cancer immunoediting. Cell reports methods, 5(3), 101006.

Frooman MB, et al. (2025) Identification and biophysical characterization of Plasmodium peptide binding by common African HLAs. Scientific reports, 15(1), 8614.

Stetsenko V, et al. (2025) Human memory CD4+ T-cells recognize Mycobacterium tuberculosis-infected macrophages amid broader pathogen-specific responses. bioRxiv : the preprint server for biology.

Nguyen KA, et al. (2025) CD22 TCR-engineered T cells exert antileukemia cytotoxicity without causing inflammatory responses. Science advances, 11(15), eadq4297.

Kontopodis E, et al. (2025) Uniquome: Construction and decoding of a novel proteomic atlas that contains new peptide entities. Computational and structural biotechnology journal, 27, 2123.

Sop J, et al. (2025) CD4+ T cell recognition of HIV-1 alternate reading frame proteins. *Frontiers in immunology*, 16, 1600132.

Mahajan M, et al. (2025) Detecting known neoepitopes, gene fusions, transposable elements, and circular RNAs in cell-free RNA. *Bioinformatics (Oxford, England)*, 41(5).

Zhang Y, et al. (2025) Immunoproteomic Screening of Candidate Antigens for the Preliminary Development of a Novel Multi-Component and Multi-Epitope Vaccine Against *Streptococcus suis* Infection. *Vaccines*, 13(10).

Long X, et al. (2025) THLANet: A deep learning framework for predicting TCR-pHLA binding in immunotherapy applications. *PLoS computational biology*, 21(9), e1013050.

Duraisamy N, et al. (2025) A Pan-H5N1 Multiepitope DNA Vaccine Construct Targeting Some Key Proteins of the Clade 2.3.4.4b Using AI-Assisted Epitope Mapping and Molecular Docking. *Viruses*, 17(9).

Kwon T, et al. (2025) Pigs lacking Natural Killer T cells have altered cellular responses to influenza. *bioRxiv : the preprint server for biology*.

Zanoos KA, et al. (2025) OmpA virulence factor, a promising conserved vaccine candidate against *Acinetobacter baumannii*, could trigger autoreactive immune responses in susceptible population. *BMC immunology*, 26(1), 85.

Chen Y, et al. (2025) A novel monoclonal antibody targeting a conserved inner region of the hepatitis B virus envelope enables broad detection of immune escape variants. *Virus research*, 362, 199669.

Li Z, et al. (2025) A promising endeavor against human cytomegalovirus: Predominant epitopes-based recombinant subunit vaccine RHEcIE1/pp65/pp150. *Virulence*, 16(1), 2497903.

Lutz J, et al. (2025) Preclinical development of an mRNA-based multiepitope immunotherapeutic for glioblastoma. *Cancer immunology, immunotherapy : CII*, 74(11), 329.

Zubair A, et al. (2025) Integrative genomic and immunoinformatic approach for characterizing HIV-1 pol, vpr, and Nef genes and designing a multi-epitope vaccine. *Scientific reports*, 15(1), 33690.

Guo L, et al. (2025) Development and evaluation of multiepitope fusion proteins for serological diagnosis of animal brucellosis. *Microbiology spectrum*, 13(11), e0051625.

Lee KH, et al. (2025) NeoPrecis: Enhancing Immunotherapy Response Prediction through Integration of Qualified Immunogenicity and Clonality-Aware Neoantigen Landscapes. *bioRxiv : the preprint server for biology*.