

Resource Summary Report

Generated by [dkNET](#) on Jul 29, 2026

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: service resource, data repository, 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: 20260729T044138+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 [dkNET](#) .

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.

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

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

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.

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).

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

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.

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

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.

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).

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

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

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.

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*.

Balakrishnan A, et al. (2025) Unlocking the secrets of the immunopeptidome: MHC molecules, ncRNA peptides, and vesicles in immune response. *Frontiers in immunology*, 16, 1540431.

da Cruz Freire JE, et al. (2025) Molecular and Immunological Properties of a Chimeric Glycosyl Hydrolase 18 Based on Immunoinformatics Approaches: A Design of a New Anti-Leishmania Vaccine. *ACS pharmacology & translational science*, 8(1), 78.

Lu T, et al. (2025) TransHLA: a Hybrid Transformer model for HLA-presented epitope detection. *GigaScience*, 14.

de Oliveira B, et al. (2025) Characterization of a novel Leishmania antigen containing a repetitive domain and its potential use as a prophylactic and therapeutic vaccine. *mSphere*, 10(5), e0009725.

Yuan X, et al. (2025) Novel Mycoplasma bovis membrane lipoproteins induce the inflammatory response of host epithelial cells and macrophage. *Frontiers in immunology*, 16, 1580436.