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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-HLA-DR [1D10 (Hu1D10; Apolizumab)] Standard Size Ab03369-3.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG2b, Fc Silent™, Kappa

Clone Number: 1D10 (Hu1D10; Apolizumab)

Alternative Name(s) of Target: CD74; HLA class II histocompatibility antigen gamma chain; HLA-DR antigens-associated invariant chain; Ia antigen-associated invariant chain; Ii; p33

UniProt Accession Number of Target Protein: P04233

Published Application(s): IP, therapeutic, FC

Published Species Reactivity: Human

Immunogen: The original mouse antibody 1D10 was generated by immunizing female BALB/c mice intraperitoneally with human large cell lymphoma HO-85. Humanized version of this antibody was generated by grafting CDRs of the parental mouse antibody onto human framework regions.

Specificity: This antibody recognizes a variant epitope on the beta chain of HLA-DR. It can bind some but not all HLA-DR beta chains. The antigen that this antibody binds is expressed on lymphocytes, macrophages, and dendritic (mesenchymal) cells and on most B cell neoplasms. HLA-DR is an MHC class II cell surface receptor encoded by the human leukocyte antigen complex on chromosome 6 region 6p21.31. HLA-DR is also involved in several autoimmune conditions, disease susceptibility and disease resistance. The primary function of HLA-DR is to present peptide antigens, potentially foreign in origin, to the immune system for the purpose of eliciting or suppressing T-(helper)-cell responses that eventually lead to the production of antibodies against the same peptide antigen.

Application Notes: This antibody is the humanized version of anti-HLA-DR mouse parental antibody called 1D10. This antibody is capable of recognizing a majority of B-cell malignancies. This antibody is capable of inducing complement-mediated cytotoxicity, antibody dependent cell cytotoxicity and direct apoptosis of B cells expressing HLA-DR. The original mouse version does not possess these characteristics. This antibody has similar affinity to human HLA-DR as compared to its parental mouse antibody (PMID: 11477560). This antibody was also used for the generation of a bispecific antibody in combination with anti-CD3e antibody

M291 (Visilizumab) (US6129914).

Antibody First Published in: Kostelny et al. Humanization and characterization of the anti-HLA-DR antibody 1D10. Int J Cancer. 2001 Aug 15;93(4):556-65. [PMID:11477560](https://pubmed.ncbi.nlm.nih.gov/11477560/)

Note on publication: This paper describes the generation and characterization of the humanized version of anti-HLA DR antibody 1D10.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.