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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-HLA-DR [L243] Bulk Size Ab03368-3.3-BT

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

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG2 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG2b, [Fc Silent™](#), Kappa

Clone Number: L243

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): ICC, IP, WB, Block, FC, IF, IHC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing mice with the human B cell line RPMI 8866.

Specificity: This antibody reacts with the HLA-DR antigen and does not cross react with HLA-DP or HLA-DQ. This antibody binds a conformational epitope on HLA-DR α which depends on the correct folding of the $\alpha\beta$ heterodimer. 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 can be used for the immunoprecipitation of HLA-DR and MHC class-II peptides (PMID: 2961843; 11390619). L243 selectively inhibited the in vitro proliferation of Epstein-Barr virus-transformed lymphoblastoid cell lines (LCL) (PMID: 2467753). This antibody was used in a flow cytometric assay to detect the decrease in HLA-DR expression on monocytes which is an indicator of immunosuppression in patients with sepsis and is correlated with increased risk of secondary infection and mortality (PMID: 33432735). Alexa 568 and FITC labelled L243 antibody was used in the immunofluorescent staining of renal microvascular endothelial cells (RMEC) or human kidney tissue (PMID: 12707403). This antibody was also used in the detection of MHC class II protein in a western blot (PMID: 11390619). This antibody can also be used for the immunocytochemical and immunohistochemical analysis of frozen

sections of necropsy brain tissue to identify HLA-DR expressing cells (PMID: 1864982).

Antibody First Published in: Lampson et al. Two populations of Ia-like molecules on a human B cell line. J Immunol. 1980 Jul;125(1):293-9. [PMID:6966655](#)

Note on publication: Describes the generation of two antibodies against Ia-like molecules on the human B cell line Raji.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.