

Anti-HLA Class II DRB1/HLA-DRB1 Antibody Picoband® Fluoro550 Conjugated

Catalog Number: A00568-Fluoro550

About HLA-DRB1

HLA class II histocompatibility antigen, DRB1 beta chain is a protein that in humans is encoded by the HLA-DRB1 gene. This gene is mapped to 6p21.32. DRB1 encodes the most prevalent beta subunit of HLA-DR. Several alleles of DRB1 (shared epitope alleles) are associated with an increased incidence of rheumatoid arthritis. HLA-DRB1 belongs to the HLA class II beta chain paralogs. The class II molecule is a heterodimer consisting of an alpha (DRA) and a beta chain (DRB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa. It is encoded by 6 exons. It plays a central role in the immune system by presenting peptides derived from extracellular proteins to T helper cells.

Overview

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| Product Name | Anti-HLA Class II DRB1/HLA-DRB1 Antibody Picoband® Fluoro550 Conjugated |
| Reactive Species | Human |
| Application | Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Rabbit |
| Uniprot ID | P13761 |

Technical Details

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| Immunogen | A synthetic peptide corresponding to a sequence at the N-terminus of human HLA Class II DRB1/HLA-DRB1. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Conjugate | Fluoro550 Excitation Wavelength: 562 nm |

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| | Emission Wavelength: 576 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users. |

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