

Anti-HLA Class II DRB1/HLA-DRB1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: A00568-Fluoro488

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

Product Name	Anti-HLA Class II DRB1/HLA-DRB1 Antibody Picoband® Fluoro488 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

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	Fluoro488 Excitation Wavelength: 488 nm

	Emission Wavelength: 515-545 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

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