

DESCRIPTION

Species Reactivity	Human
Specificity	Detects a synthetic peptide specific for human HLA-DRB1 around amino acid 45 in Direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 1091354
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic Peptide Accession # P01911
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HLA-DRB1 is an HLA class II histocompatibility antigen. It is part of a heterodimer consisting of an alpha (DRA) and a beta chain (DRB) which are both anchored in the membrane. Class II molecules are constitutively expressed in professional APC's. HLA-II is an important immune system protein that plays a role in tumor antigen presentation, immune response, and immune surveillance. HLA-DRB1 presents antigenic peptides to HLA-DRB1-restricted CD4+ T-cells. Aberrant expression of HLA-II is closely related to the pathogenesis of tumors.

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