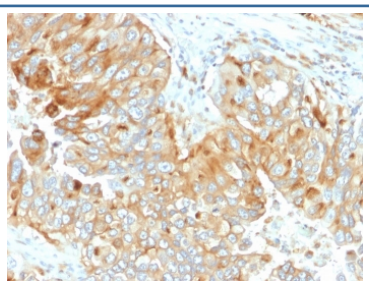
HLA-DRB1 Antibody DA2 / HLA-DR Beta Chain Antibody [clone DA2] (V7845)

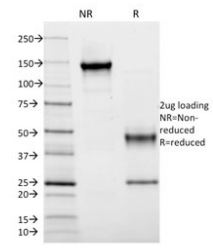
Catalog No.	Formulation	Size
V7845-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7845-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7845SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	DA2
Purity	Protein G affinity chromatography
UniProt	P01911
Applications	Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: 1-2ug/ml Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This HLA-DRB1 Antibody DA2 / HLA-DR Beta Chain Antibody is available for research use only.



HLA-DRB1 Antibody DA2 in Human Endometrium IHC. Immunohistochemistry staining of FFPE human endometrium tissue with HLA-DRB1 Antibody clone DA2. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 10-20 min followed by cooling before testing. HLA-DRB1 immunoreactivity is observed in scattered immune cells within the tissue, with prominent membrane-associated and cytoplasmic staining.



Purified HLA-DRB1 Antibody DA2 SDS-PAGE. Electrophoretic analysis of purified, BSA-free HLA-DRB1 Antibody clone DA2 under reducing and non-reducing conditions. Under reducing conditions, the antibody resolves into immunoglobulin heavy and light chains, while the non-reduced sample shows the intact antibody. The observed banding pattern supports the integrity and purity of the purified DA2 monoclonal antibody.

Description

HLA-DRB1 Antibody DA2 / HLA-DR Beta Chain Antibody recognizes an HLA-DR beta-chain determinant associated with the major histocompatibility complex (MHC) class II antigen-presentation system. HLA-DR molecules consist of an HLA-DRA-encoded alpha chain associated with a beta chain encoded by an HLA-DRB gene. The assembled heterodimer binds antigen-derived peptides and displays them for recognition by CD4-positive T cells, making HLA-DR a central component of adaptive immune responses.

HLA-DRB1 encodes the principal beta chain of HLA-DR and is among the most polymorphic genes in the human genome. Variation within the beta chain contributes substantially to the peptide-binding properties of HLA-DR molecules and consequently to differences in antigen recognition among individuals. HLA-DR complexes are prominently expressed by professional antigen-presenting cells, including B cells, dendritic cells, monocytes and macrophages, and their expression is widely investigated in immunology, transplantation, autoimmunity, infectious disease and cancer.

Clone DA2 is a historically important and published monoclonal antibody used in HLA-DR research. Its original characterization described DA2 as recognizing a monomorphic determinant common to HLA-DR specificities, with reactivity demonstrated across human B-cell populations. Subsequent research has continued to use DA2 as an HLA-DR beta-chain reagent, and experimental analysis with recombinant HLA-DRB proteins has demonstrated recognition of multiple HLA-DRB1 allelic forms. This established literature history distinguishes DA2 from less extensively characterized HLA-DRB1 antibody clones and provides continuity with decades of research into HLA class II expression and immunogenetics.

NSJ Bioreagents provides clone DA2 as an HLA-DRB1 Antibody for research into HLA-DR expression, antigen presentation and immune-cell biology. Its long-standing publication history and recognition of a conserved HLA-DR determinant make DA2 particularly relevant to researchers seeking an established clone for comparison with previous HLA-DR studies. An HLA-DR Beta Chain Antibody such as DA2 can support investigation of MHC class II expression and mechanisms connecting antigen presentation with CD4 T cell-mediated immunity.

For additional information on HLA-DRB1 biology and complementary antibody validation, visit our HLA-DRB1 Antibody HLA-DRB/1067 / HLA-DR Beta Chain Antibody page.

Application Notes

Optimal dilution of the HLA-DRB1 Antibody DA2 / HLA-DR Beta Chain Antibody should be determined by the researcher.

Immunogen

Activated human peripheral blood mononuclear cells were used as the immunogen for the HLA-DRB1 antibody.

Storage

Store the HLA-DRB1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

HLA-DR beta antibody, HLA-DRB1 antibody, MHC class II DR beta antibody, HLA class II histocompatibility antigen DR beta antibody

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