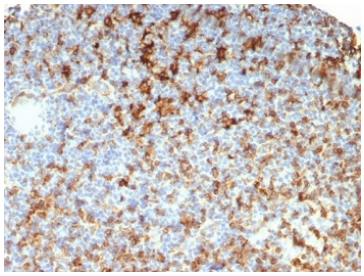
HLA-DRB Antibody [clone HLA-DRB/7795R] (V5129)

Catalog No.	Formulation	Size
V5129-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5129-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5129SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

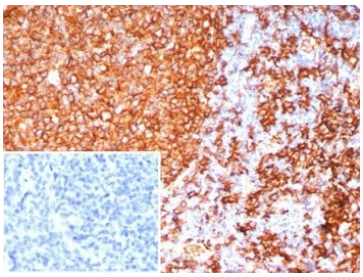
Recombinant RABBIT MONOCLONAL

Bulk quote request

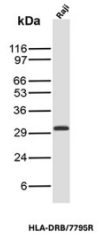
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	HLA-DRB/7795R
Purity	Protein A/G affinity
UniProt	P01911
Localization	Cell surface
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This HLA-DRB antibody is available for research use only.



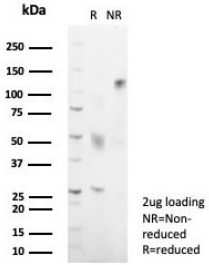
IHC staining of FFPE human lymph node tissue with HLA-DR antibody (clone HLA-DRB/7795R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil tissue with HLA-DR antibody (clone HLA-DRB/7795R). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human HDLM-2 cell lysate with HLA-DR antibody (clone HLA-DRB/7795R). Predicted molecular weight ~30 kDa but may be observed at higher molecular weights due to glycosylation.



SDS-PAGE analysis of purified, BSA-free HLA-DR antibody (clone HLA-DRB/7795R) as confirmation of integrity and purity.

Description

This mAb reacts with a 28kDa chain of HLA-DRB1 antigen, a member of MHC class II molecules. It does not cross react with HLA-DP and HLA-DQ. The L243 antibody recognizes a different epitope than the LN3 monoclonal antibody, and these antibodies do not cross-block binding to each other's respective epitopes. HLA-DR is a heterodimeric cell surface glycoprotein comprised of a 36kDa alpha (heavy) chain and a 28kDa beta (light) chain. It is expressed on B-cells, activated T-cells, monocytes/macrophages, dendritic cells and other non-professional APCs. In conjunction with the CD3/TCR complex and CD4 molecules, HLA-DR is critical for efficient peptide presentation to CD4+ T cells. It is an excellent histiocytic marker in paraffin sections producing intense staining. True histiocytic neoplasms are similarly positive. HLA-DR antigens also occur on a variety of epithelial cells and their corresponding neoplastic counterparts. Loss of HLA-DR expression is related to tumor microenvironment and predicts adverse outcome in diffuse large B-cell lymphoma.

For additional information on HLA-DRB biology and complementary antibody validation, visit our HLA-DRB Antibody rHLA-DRB/7198 / HLA-DR Beta Chain Antibody page.

Application Notes

Optimal dilution of the HLA-DRB antibody should be determined by the researcher.

Immunogen

Recombinant full-length human HLA-DRB1 protein was used as the immunogen for the HLA-DRB antibody.

Storage

Aliquot the HLA-DRB antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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