

Mouse anti-Human MHC Class II Monoclonal Antibody | anti-HLA-DQB1 antibody

Mouse Monoclonal [clone TDR31.1] (IgG1) to Human MHC Class II

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA51942	Mouse	Human	Flow Cytometry, Functional Assay, Western Blot, Immunohistochemistry, Immunohistochemistry

PRODUCT SYNONYMS

MHC Class II; Monoclonal Antibody; Mouse Monoclonal [clone TDR31.1] (IgG1) to Human MHC Class II; Anti-MHC Class II Antibody (clone TDR31.1) IHC-plus; Human MHC Class II; anti-HLA-DQB1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	TDR31.1
Specificity	Monomorphic class II beta chain epitope.
Purity/Purification	Protein A Purified
Form/Format	50 mM sodium phosphate, pH 7.5, 100 mM potassium chloride, 150 mM sodium chloride, 0.5 mg/ml Gentamicin sulfate. Sourced in TCS.
Concentration	1 mg/ml (varies by lot)
Sequence Length	229
Applicable Applications for anti-HLA-DQB1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Immunogen Description	Purified (With Antibiotics) class II from JY cell line.
Immunogen Species	MHC class II antibody was raised against Human
Immunogen Type	Cells
Immunogen	MHC Class II antibody was raised against purified (With Antibiotics) class II from JY cell line.
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol

The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results:

Tissue Preparation:
Formalin fixation and embedding in paraffin wax.

Tissue Sectioning:
Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.

Deparaffinization:
Wash dry slides in 3 changes of xylene - 5 minutes each @ RT

Rehydration:
Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT
Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT
Wash slides in 1 change of 80% alcohol - 3 minutes @ RT
Rinse slides in gentle running distilled water - 5 minutes @ RT

Antigen retrieval:
Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes
Remove from heat and let stand at room temperature in buffer - 20 minutes
Rinse in 1X TBS with Tween (TBST) -1 minute @ RT

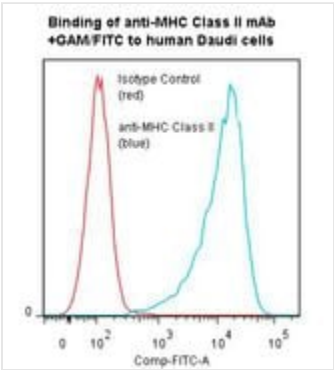
Immunostaining:
(Do not allow tissues to dry at any time during the staining procedure)
Apply a universal protein block - 20 minutes @ RT
Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT
Rinse slides in 1 X TBST - 1 minute @ RT
Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT
Rinse slides in 1X TBST -1 minute @ RT
Apply alkaline phosphatase streptavidin - 30 minutes @ RT
Rinse slides in 1X TBST -1 minute @ RT
Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT
Wash slides in distilled water - 1 minute @ RT

Dehydrate:
(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB)
Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT
Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT
Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT
Wash slides in 3 changes of xylene - 1 minute each @ RT
Apply coverslip

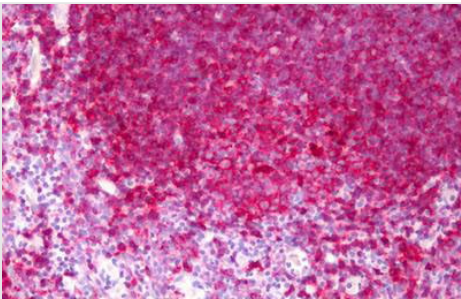
Preparation and Storage

Store at +4 degree C. DO NOT FREEZE.

IMAGES



FCM/FACS (Flow Cytometry)
Flow cytometry of MHC Class II antibody



IHC (Immunohistochemistry)
Anti-MHC Class II antibody IHC of human tonsil. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/ml.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1160938
NCBI GeneID	3119
NCBI Official Full Name	MHC class II, partial
NCBI Official Synonym Full Names	major histocompatibility complex, class II, DQ beta 1
NCBI Official Symbol	HLA-DQB1
NCBI Official Synonym Symbols	IDDM1; CELIAC1; HLA-DQB
NCBI Protein Information	HLA class II histocompatibility antigen, DQ beta 1 chain; MHC DQ beta; MHC class2 antigen; lymphocyte antigen; MHC class II antigen DQB1; MHC class II DQ beta chain; MHC class II antigen HLA-DQ-beta-1; MHC class II HLA-DQ beta glycoprotein
UniProt Protein Name	HLA class II histocompatibility antigen, DQ beta 1 chain
UniProt Gene Name	HLA-DQB1
UniProt Synonym Gene Names	HLA-DQB
UniProt Entry Name	DQB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/mhc-class-ii-antibody-clone-tdr31-1-flow-cytometry-western-blot-immunohistochemistry-immunohistochemistry-elisa/51942>