

**HLA-DQA1 rabbit pAb****Cat#: orb771636 (Manual)**

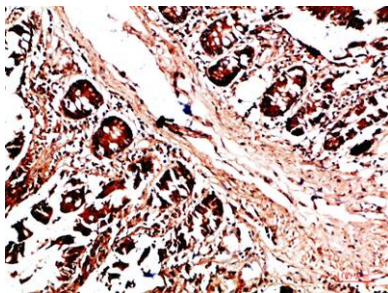
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<b>Product Name</b>	HLA-DQA1 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human
<b>Recommended dilutions</b>	IHC-p 1:50-200, ELISA 1:10000-20000
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from the Internal region of human HLA-DQA1. AA range:21-70
<b>Specificity</b>	The antibody detects endogenous HLA-DQA1
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	HLA class II histocompatibility antigen, DQ alpha 1 chain (DC-1 alpha chain) (DC-alpha) (HLA-DCA) (MHC class II DQA1)
<b>Gene Name</b>	HLA-DQA1
<b>Cellular localization</b>	Cell membrane; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus, trans-Golgi network membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein. The MHC class II complex transits through a number of intracellular compartments in the endocytic pathway until it reaches the cell membrane for antigen presentation.

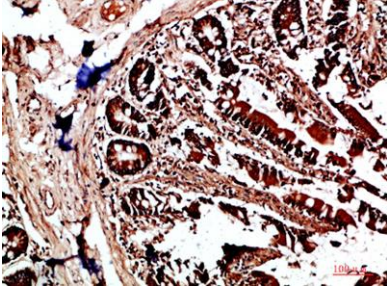
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	
<b>Human Gene ID</b>	100509457
<b>Human Swiss-Prot Number</b>	P01909
<b>Alternative Names</b>	HLA class II histocompatibility antigen, DQ alpha 1 chain (DC-1 alpha chain;DC-alpha;HLA-DCA;MHC class II DQA1)

**Background**

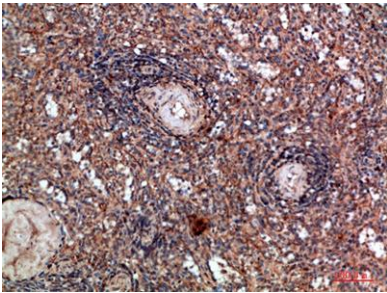
HLA-DQA1 belongs to the HLA class II alpha chain paralogues. The class II molecule is a heterodimer consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B Lymphocytes, dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa. It is encoded by 5 exons; exon 1 encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DQ molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to four different molecules. Typing for these polymorphisms is routinely done for bone marro



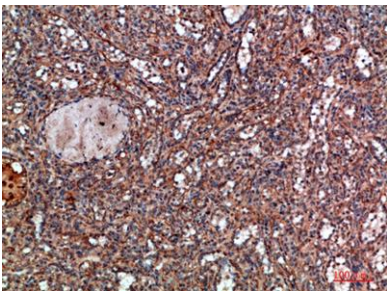
**Immunohistochemical analysis of paraffin-embedded human-colon, antibody was diluted at 1:200**



**Immunohistochemical analysis of paraffin-embedded human-colon, antibody was diluted at 1:200**



**Immunohistochemical analysis of paraffin-embedded human-spleen, antibody was diluted at 1:200**



**Immunohistochemical analysis of paraffin-embedded human-spleen, antibody was diluted at 1:200**