HLA-DOA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HLA-DOA, Polyclonal Antibody
Full Product Name	HLA-DOA Antibody
Product Gene Name	anti-HLA-DOA antibody
Product Synonym Names	HLA class II histocompatibility antigen; DO alpha chain [Precursor]; MHC class II antigen DOA; MHC DZ alpha; MHC DN-alpha
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total HLA-DOA protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	27,599 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (32971959..32977389, complement). Location: 6p21.3
OMIM	142930
3D Structure	ModBase 3D Structure for P06340
Immunogen	Synthesized peptide derived from internal of human HLA-DOA.
Product Categories/Family for anti-HLA-DOA antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HLA-DOA antibody	Western Blot (WB)
Application Notes for anti-HLA-DOA antibody	WB: 1:500~1:3000
Related Product Information for anti-HLA-DOA antibody	Important modulator in the HLA class II restricted antigen presentation pathway by interaction with the HLA-DM molecule in B-cells. Modifies peptide exchange activity of HLA-DM.
Product References and Citations for anti-HLA-DOA antibody	Trowsdale J., EMBO J. 4:2231-2237 (1985).Jonsson A.-K., Immunogenetics 29:411-413 (1989).Young J.A., Immunogenetics 31:386-388 (1990)
Other Notes	Small volumes of anti-HLA-DOA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HLA-DOA purchase	MBS8588307 is an antibody targeting HLA-DOA. Also known as HLA-DOA Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HLA-DOA. It may not necessarily be applicable to this product.

NCBI GI #	4504401
NCBI GeneID	3111
NCBI Accession #	NP_002110.1
UniProt Primary Accession #	P06340
UniProt Secondary Accession #	Q58HU0; Q58HU1; Q5STC7; Q9TQC6; Q9TQC7; Q9TQC8; Q9TQC9; Q9TQD0; Q9TQD1; Q9TQD2; Q9TQD3
UniProt Related Accession #	P06340
GenBank Nucleotide #	NM_002119.3
NCBI Official Full Name	HLA class II histocompatibility antigen, DO alpha chain
NCBI Official Synonym Full Names	major histocompatibility complex, class II, DO alpha
NCBI Official Symbol	HLA-DOA
NCBI Official Synonym Symbols	HLADZ; HLA-DNA; HLA-DZA
UniProt Protein Name	HLA class II histocompatibility antigen, DO alpha chain
UniProt Synonym Protein Names	MHC DN-alpha; MHC DZ alpha; MHC class II antigen DOA
Protein Family	HLA class II histocompatibility antigen
UniProt Gene Name	HLA-DOA
UniProt Synonym Gene Names	HLA-DNA; HLA-DZA
UniProt Entry Name	DOA_HUMAN
NCBI Protein Information	HLA class II histocompatibility antigen, DO alpha chain; HLA-D0-alpha; MHC DN-alpha; MHC DZ alpha; lymphocyte antigen; MHC class II antigen DOA; major histocompatibility complex, class II, DN alpha
NCBI Summary for HLA-DOA	HLA-DOA belongs to the HLA class II alpha chain paralogues. HLA-DOA forms a heterodimer with HLA-DOB. The heterodimer, HLA-DO, is found in lysosomes in B cells and regulates HLA-DM-mediated peptide loading on MHC class II molecules. In comparison with classical HLA class II molecules, this gene exhibits very little sequence variation, especially at the protein level. [provided by RefSeq, Jul 2008]
UniProt Comments for HLA-DOA	HLA-DOA: Important modulator in the HLA class II restricted antigen presentation pathway by interaction with the HLA-DM molecule in B-cells. Modifies peptide exchange activity of HLA-DM. Belongs to the MHC class II family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: lysosomal membrane; integral to membrane; plasma membrane; endosome membrane; MHC class II protein complex Molecular Function: MHC class II receptor activity Biological Process: negative regulation of antigen processing and presentation of peptide antigen via MHC class II; antigen processing and presentation of exogenous peptide antigen via MHC class II; immune response; regulation of T cell differentiation; signal transduction
Research Articles on HLA-DOA	**1.** results show that HLA-DO inhibits HLA-DM function by acting as a substrate mimic, and the findings also limit the possible functional roles for HLA-DO in antigen presentation

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