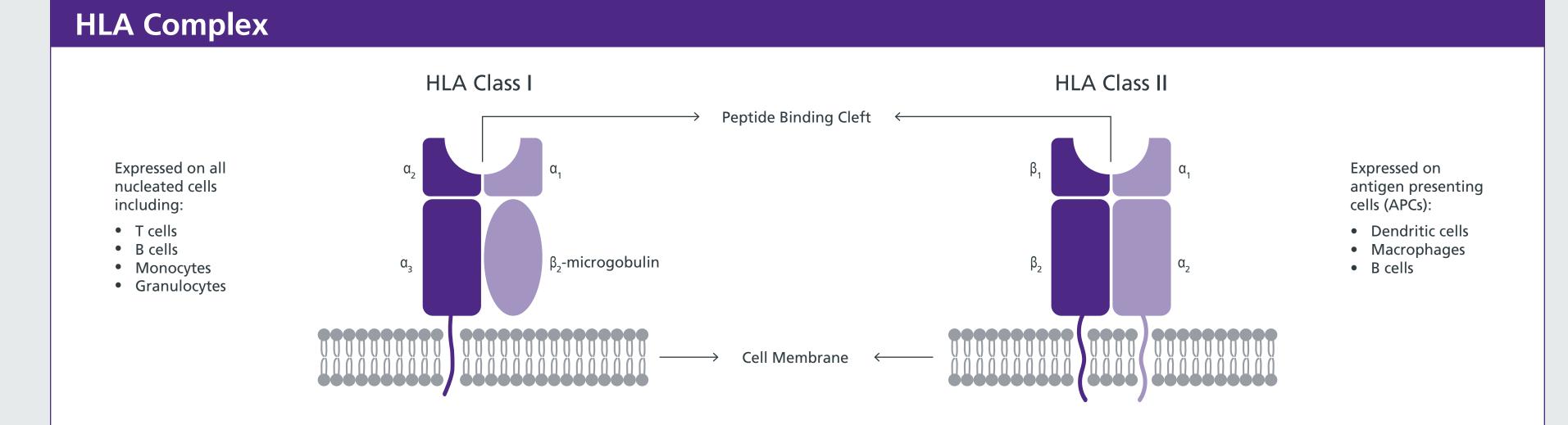
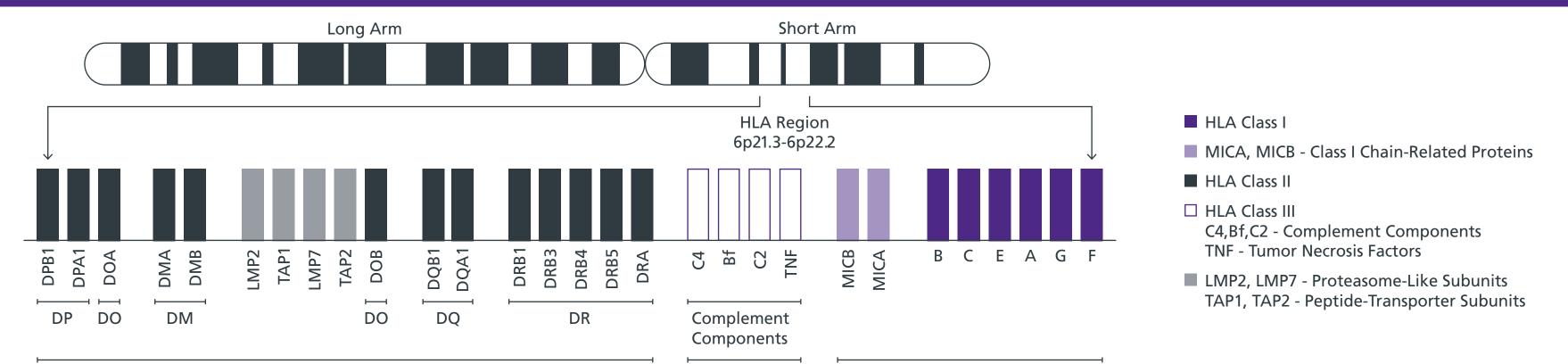
The Human Leukocyte Antigen (HLA) Complex

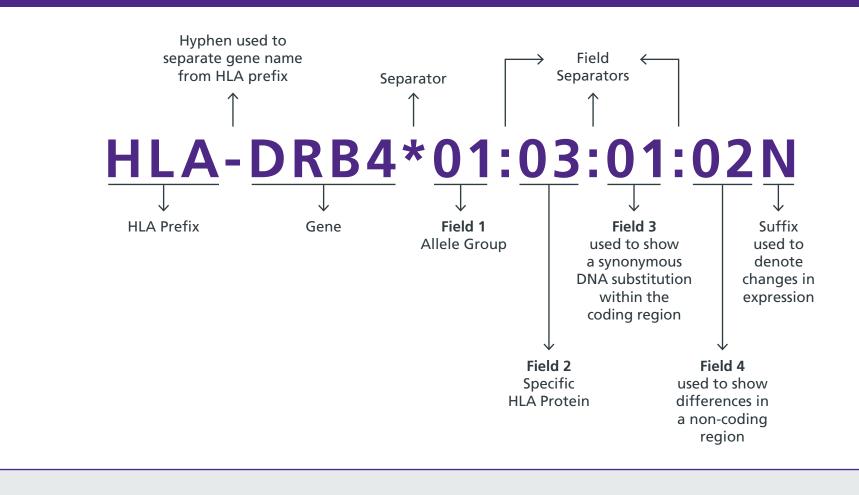


HLA Genes on Chromosome 6



Class IIClass IClass I0.9 Mb0.8 Mb2 Mb				
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Nomenclature



SUFFIX	EXPRESSION STATUS	
L	Low cell surface expression when compared to normal levels.	
S	Expressed as a soluble, secreted molecule but is not present on the cell surface.	
С	Alleles that produce proteins that are present in the cytoplasm and not on the cell surface.	
А	Aberrant expression where there is some doubt as to whether a protein is actually expressed.	
Q	Expression of an allele is questionable , given that the mutation seen in the allele has been shown to affect normal expression levels in other alleles.	
N	Alleles that have been shown not to be expressed (null).	

HLA Typing and Crossmatching							
PURPOSE	ASSAYS	TECHNIQUE	PURIFIED LYMPHOCYTES IMPROVE ASSAY?	STEMCELL TECHNOLOGIES CELL ISOLATION KITS (CATALOG #)			
Determine HLA Type	DNA-Based HLA Typing	 Sequence-Specific Oligonucleotide Probes (SSOP) Sequence-Specific Primer (SSP) Next Generation Sequencing (NGS) 	NO	Not Applicable			
	Serological HLA Typing	Typing TraysMicrocytotoxicity Assays	YES	T Cells: 15061, 15061HLA B Cells: 15064, 15064HLA			
Detect Donor Specific Antibodies (DSA)	Patient-Donor Crossmatch	 Flow Cytometry Crossmatch (FCXM) Assay Complement-Dependent Cytotoxicity (CDC) Crossmatch Assay 	YES	Total Lymphocytes: 19655, 19961HLA T Cells: 19671, 89671 B Cells: 19684, 89684			
	Anti-HLA Antibody Screening	 Solid Phase Assays (Luminex®) Enzyme-Linked Immunosorbent Assay (ELISA) 	NO	Not Applicable			

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