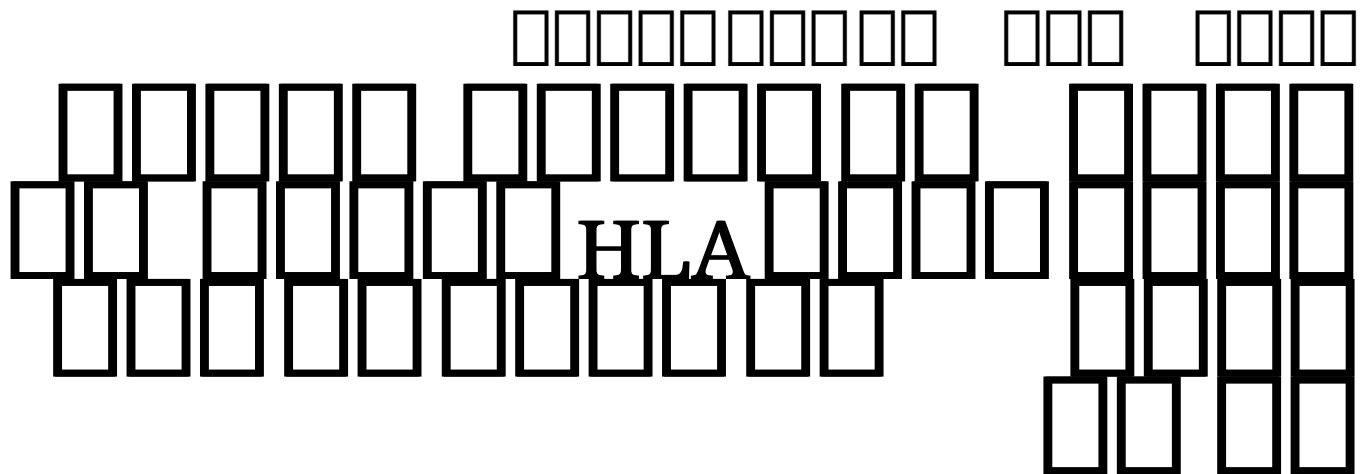




HLA (Human Leukocyte Antigen) system is a set of genes that code for proteins that help the immune system recognize and respond to foreign substances. The HLA system is located on chromosome 6p21.3. It consists of several genes, including HLA-A, HLA-B, HLA-C, HLA-D, HLA-E, HLA-F, and HLA-G. The HLA-A, HLA-B, and HLA-C genes are the most polymorphic. The HLA-D, HLA-E, HLA-F, and HLA-G genes are the least polymorphic.

HLA 1 (Class I) is a type of HLA molecule that is found on the surface of all nucleated cells. It is composed of two heavy chains (A and B) and a light chain (C). The heavy chains are encoded by the HLA-A, HLA-B, and HLA-C genes. The light chain is encoded by the HLA-E, HLA-F, and HLA-G genes. HLA 1 molecules are involved in the presentation of peptides to CD8+ T cells.

: HLA 2 (Class II) is a type of HLA molecule that is found on the surface of antigen-presenting cells (APCs). It is composed of two heavy chains (D and E) and a light chain (F). The heavy chains are encoded by the HLA-D, HLA-E, HLA-F, and HLA-G genes. The light chain is encoded by the HLA-A, HLA-B, and HLA-C genes. HLA 2 molecules are involved in the presentation of peptides to CD4+ T cells.

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Attn: Assistant Manager – Specimen Logistics 1<sup>st</sup> Floor  
East 64<sup>th</sup> Street 327  
New York, NY 10065

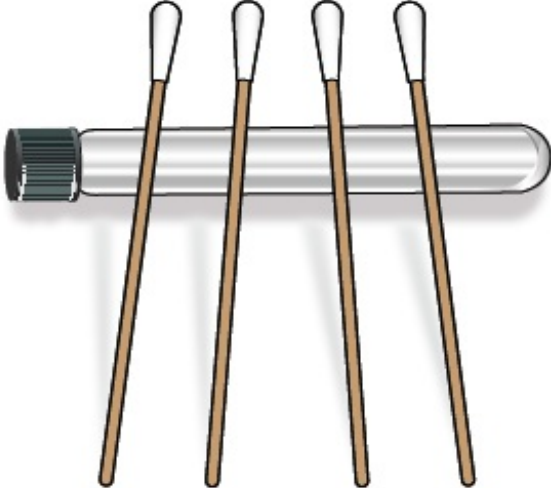
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[www.mskcc.org/ur/cancer-care/patient-  
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## Instructions for Collecting and Returning HLA Samples Using Cheek

Swabs - Last updated on January 30, 2025

Memorial Sloan Kettering Cancer Center