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**Product Name: HLA Class I Rabbit Polyclonal Antibody****Catalog #: APRab12078**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	40kDa

**Antigen Information**

<b>Gene Name</b>	HLA-A HLAA
<b>Alternative Names</b>	HLA-A HLAA
<b>Gene ID</b>	
<b>SwissProt ID</b>	P01891/P01892/P04439/P05534/P10314/P10316/P13746/P16189/P18462/P30443/ P30450/P30453/P30455/P30456/P30457/P30512/Q09160
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human HLA Class I. AA range:204-253

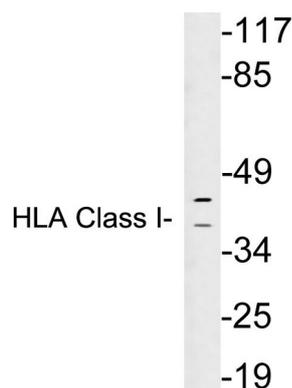
**Background**

HLA-A belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide binding specificity of each class one molecule.

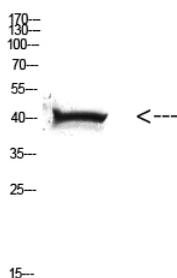
## Research Area

Endocytosis;Cell adhesion molecules (CAMs);Antigen processing and presentation;Natural killer cell mediated cytotoxicity;Type I diabetes mellitus;Autoimmune thyroid disease;Allograft rejection;Graft-versus-host disease;Viral myocarditis;

## Image Data



Western blot analysis of lysates from Ramos cells, using HLA Class I antibody.



Western Blot analysis of HELA cells using Antibody diluted at 500. Secondary antibody was diluted at 1:20000