

# HLA-B Polyclonal Antibody

Catalog Number: E-AB-64350

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

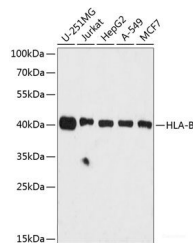
## Description

<b>Reactivity</b>	Human, Mouse, Rat
<b>Immunogen</b>	A synthetic peptide of human HLA-B (NP_005505.2).
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Conjugation</b>	Unconjugated
<b>Formulation</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Applications Recommended Dilution

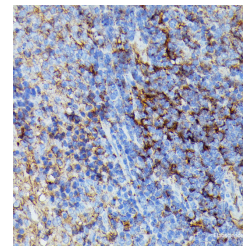
<b>WB</b>	1:1000-1:2000
<b>IHC</b>	1:50-1:200

## Data

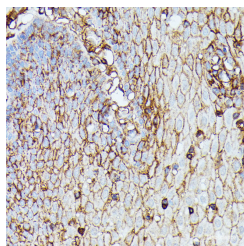


Western blot analysis of extracts of various cell lines using HLA-B Polyclonal Antibody at dilution of 1:3000.

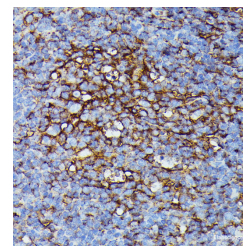
**Observed Mw:40kDa**  
**Calculated Mw:40kDa**



Immunohistochemistry of paraffin-embedded Rat spleen using HLA-B Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Human esophageal using HLA-B Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Mouse spleen using HLA-B Polyclonal Antibody at dilution of 1:100 (40x lens).

## Preparation & Storage

**Storage** Store at -20°C. Avoid freeze / thaw cycles.

## Background

HLA-B 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

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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, exon 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. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Hundreds of HLA-B alleles have been described.

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