

## Anti-HLA A/HLA-A Antibody Picoband™

Catalog Number: PB9376

### About HLA-A

HLA-A, namely HLA A, is a group of human leukocyte antigens (HLA) that are coded for by the HLA-A locus, which is located at human chromosome 6p21.3. HLA is simply the major histocompatibility complex (MHC) specific to humans. HLA-A is one of three major types of human MHC class I cell surface receptors. The others are HLA-B and HLA-C. And it is critical to the cytotoxic t-cell controlled immune response to viruses and other intracellular pathogens. Because each HLA-A gene has a high affinity for slightly different peptides, certain HLA-As are associated with increased risk, more rapid progression, and/or increased severity of many diseases. For similar reasons, HLA-A matching is essential to successful tissue transplants.

### Overview

Product Name	Anti-HLA A/HLA-A Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-HLA A/HLA-A Antibody Picoband™ catalog # PB9376. Tested in IF, IHC, ICC, WB applications. This antibody reacts with Human.
Application	IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P01892

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human HLA A.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat</p> <p>Immunocytochemistry/Immunofluorescence, 5ug/ml, Human</p>

## Anti-HLA A/HLA-A Antibody Picoband™ (PB9376) Images

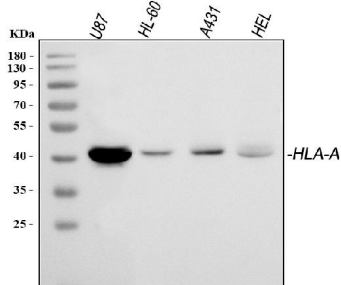


Figure 1. Western blot analysis of HLA A using anti-HLA A antibody (PB9376).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human U87 whole cell lysates,  
Lane 2: human HL-60 whole cell lysates,  
Lane 3: human A431 whole cell lysates,  
Lane 4: human HEL whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HLA A antigen affinity purified polyclonal antibody (Catalog # PB9376) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for HLA A at approximately 41 kDa. The expected band size for HLA A is at 41 kDa.

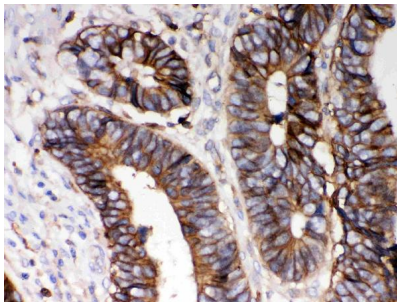


Figure 2. IHC analysis of HLA A using anti-HLA A antibody (PB9376).

HLA A was detected in a paraffin-embedded section of Human Intestinal Cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-HLA A Antibody (PB9376) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

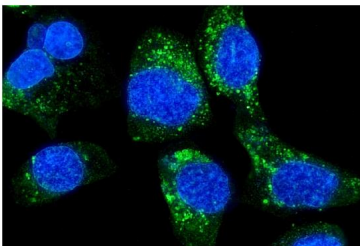


Figure 3. IF analysis of HLA A using anti-HLA A antibody (PB9376).

HLA A was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-HLA A Antibody (PB9376) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

1. PubMed ID: , Performance of a multilayered small-diameter vascular scaffold dual-loaded with VEGF and PDGF

Visit [bosterbio.com/anti-hla-a-picoband-trade-antibody-pb9376-boster.html](https://bosterbio.com/anti-hla-a-picoband-trade-antibody-pb9376-boster.html) to see all 1 publications.

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