

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

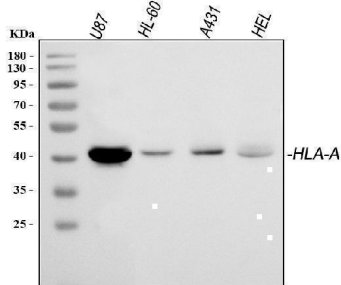
Product Name	Anti-HLA A/HLA-A Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-HLA A/HLA-A Antibody Picoband® catalog # PB9376. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg Na ₃ N. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

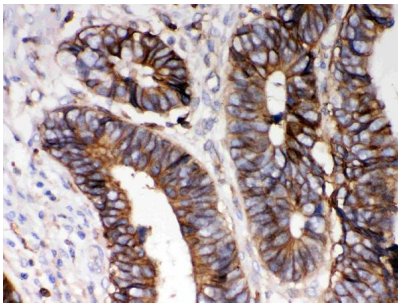
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human HLA A.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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	Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human

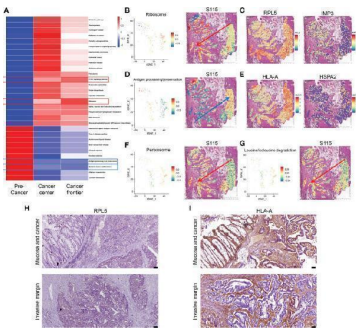
Anti-HLA A/HLA-A Antibody Picoband® (PB9376) Images



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.



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.



Signaling pathways and genes altered in CRC progression. (A) Changes in signaling pathways as CRC developed in sample S115 by GSVA analysis. (B) Spatial distribution and expression trend of ribosome pathway in S115. (C) RPL5 (left) and IMP3 (right) expression gradually increased in the direction of the red arrow. (D) Spatial distribution and expression trend of antigen processing and presentation pathway in S115. (E) HLA-A (left) and HSPA2 (right) expression gradually increased in the direction of the blue arrow. (F, G) Expression direction of peroxisome pathway (F) and leucine and isoleucine degradation pathway (G) in S115. (H, I) Immunohistochemical staining showed expression of RPL5 (H) and HLA-A (I) in Mucosa and cancer(up) and Invasive margin(down) (n=45). The scale bars on the lower right in (H) , (I) are 100 μm. Index in PubMed under a CC BY license. PMID: 36816947

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

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