

HLA-A Rabbit mAb**Catalog No.: A11406**

Recombinant

1 Publications

Basic Information**Observed MW**

41kDa

Calculated MW

41kDa

Category

Monoclonal Antibodies

Applications

WB, IHC-P, mIHC, ELISA

Cross Reactivity

Human

Clone No.

ARC0588

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 so that they can be recognized by cytotoxic T cells. 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. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. More than 6000 HLA-A alleles have been described. The HLA system plays an important role in the occurrence and outcome of infectious diseases, including those caused by the malaria parasite, the human immunodeficiency virus (HIV), and the severe acute respiratory syndrome coronavirus (SARS-CoV). The structural spike and the nucleocapsid proteins of the novel coronavirus SARS-CoV-2, which causes coronavirus disease 2019 (COVID-19), are reported to contain multiple Class I epitopes with predicted HLA restrictions. Individual HLA genetic variation may help explain different immune responses to a virus across a population.

Recommended Dilutions

WB	1:1000 - 1:6000
IHC-P	1:200 - 1:2000
mIHC	1:100 - 1:400
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information**Gene ID**

3105

Swiss-Prot

P01891

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

HLAA; HLA-A

Contact

	400-999-6126
	cn.market@abclonal.com.cn
	www.abclonal.com.cn

Product Information**Source**

Rabbit

Isotype

IgG

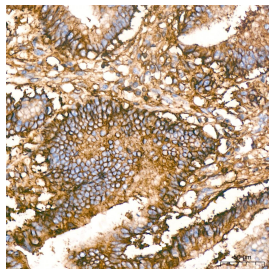
Purity

Affinity purification

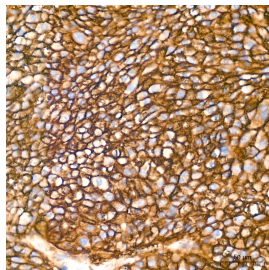
Storage

Store at -20°C

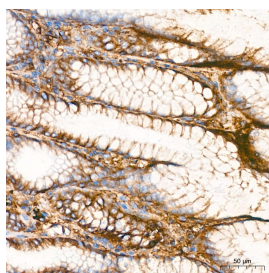
Validation Data



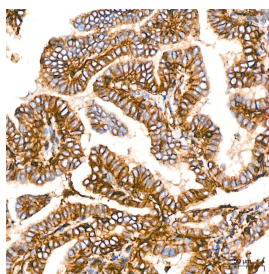
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using HLA-A Rabbit mAb (A11406) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



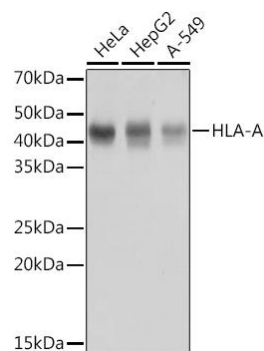
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using HLA-A Rabbit mAb (A11406) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human stomach tissue using HLA-A Rabbit mAb (A11406) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using HLA-A Rabbit mAb (A11406) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Western blot analysis of various lysates using HLA-A Rabbit mAb (A11406) at 1:1000 dilution.

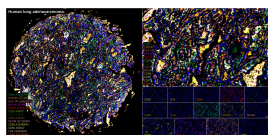
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

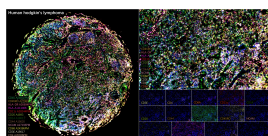
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

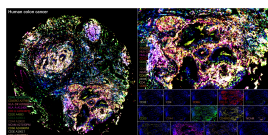
Exposure time: 1s.



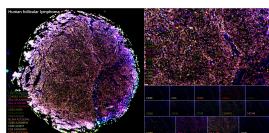
The multiplex IHC analysis on paraffin-embedded Human lung adenocarcinoma tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD45 Rabbit PolymAb® (A24802PM, 1:1000) with TSA-TYR-480 (Green), and Mouse anti-Human CD45RO mAb (A27969, 1:500) with TSA-TYR-520 (Golden Yellow), and HLA-DR Rabbit PolymAb® (A26694PM, 1:1600) with TSA-TYR-570 (Pale Pinkish White), and HLA-A Rabbit mAb (A11406, 1:200) with TSA-TYR-620 (Magenta), and CD11c Rabbit PolymAb® (A28244PM, 1:4000) with TSA-TYR-690 (Red), and CD20 Rabbit mAb (A4893, 1:1000) with TSA-TYR-480 (Yellow-Green), and CD14 Rabbit mAb (A19011, 1:800) with TSA-TYR-520 (Dark Green), and [KO Validated] CD44 Rabbit mAb (A19020, 1:4000) with TSA-TYR-570 (Brown), and NCAM Rabbit PolymAb® (A27193PM, 1:5000) with TSA-TYR-620 (Light Pink), and CD68 Rabbit PolymAb® (A24386PM, 1:8000) with TSA-TYR-690 (Yellow), and CD3E Rabbit mAb (A19017, 1:4000) with TSA-TYR-520 (Cream), and CD4 Rabbit PolymAb® (A26036PM, 1:400) with TSA-TYR-570 (Light Tan), and CD8A Rabbit PolymAb® (A23305PM, 1:1000) with TSA-TYR-690 (Orange). DAPI (White) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



The multiplex IHC analysis on paraffin-embedded Human hodgkin's lymphoma tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD45 Rabbit PolymAb® (A24802PM, 1:1000) with TSA-TYR-480 (Green), and Mouse anti-Human CD45RO mAb (A27969, 1:500) with TSA-TYR-520 (Golden Yellow), and HLA-DR Rabbit PolymAb® (A26694PM, 1:1600) with TSA-TYR-570 (Pale Pinkish White), and HLA-A Rabbit mAb (A11406, 1:200) with TSA-TYR-620 (Magenta), and CD11c Rabbit PolymAb® (A28244PM, 1:4000) with TSA-TYR-690 (Red), and CD20 Rabbit mAb (A4893, 1:1000) with TSA-TYR-480 (Yellow-Green), and CD14 Rabbit mAb (A19011, 1:800) with TSA-TYR-520 (Dark Green), and [KO Validated] CD44 Rabbit mAb (A19020, 1:4000) with TSA-TYR-570 (Brown), and NCAM Rabbit PolymAb® (A27193PM, 1:5000) with TSA-TYR-620 (Light Pink), and CD68 Rabbit PolymAb® (A24386PM, 1:8000) with TSA-TYR-690 (Yellow), and CD3E Rabbit mAb (A19017, 1:4000) with TSA-TYR-520 (Cream), and CD4 Rabbit PolymAb® (A26036PM, 1:400) with TSA-TYR-570 (Light Tan), and CD8A Rabbit PolymAb® (A23305PM, 1:1000) with TSA-TYR-690 (Orange). DAPI (White) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



The multiplex IHC analysis on paraffin-embedded Human colon cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD45 Rabbit PolymAb® (A24802PM, 1:1000) with TSA-TYR-480 (Green), and Mouse anti-Human CD45RO mAb (A27969, 1:500) with TSA-TYR-520 (Golden Yellow), and HLA-DR Rabbit PolymAb® (A26694PM, 1:1600) with TSA-TYR-570 (Pale Pinkish White), and HLA-A Rabbit mAb (A11406, 1:200) with TSA-TYR-620 (Magenta), and CD11c Rabbit PolymAb® (A28244PM, 1:4000) with TSA-TYR-690 (Red), and CD20 Rabbit mAb (A4893, 1:1000) with TSA-TYR-480 (Yellow-Green), and CD14 Rabbit mAb (A19011, 1:800) with TSA-TYR-520 (Dark Green), and [KO Validated] CD44 Rabbit mAb (A19020, 1:4000) with TSA-TYR-570 (Brown), and NCAM Rabbit PolymAb® (A27193PM, 1:5000) with TSA-TYR-620 (Light Pink), and CD68 Rabbit PolymAb® (A24386PM, 1:8000) with TSA-TYR-690 (Yellow), and CD3E Rabbit mAb (A19017, 1:4000) with TSA-TYR-520 (Cream), and CD4 Rabbit PolymAb® (A26036PM, 1:400) with TSA-TYR-570 (Light Tan), and CD8A Rabbit PolymAb® (A23305PM, 1:1000) with TSA-TYR-690 (Orange). DAPI (White) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



The multiplex IHC analysis on paraffin-embedded Human follicular lymphoma tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD45 Rabbit PolymAb® (A24802PM, 1:1000) with TSA-TYR-480 (Green), and Mouse anti-Human CD45RO mAb (A27969, 1:500) with TSA-TYR-520 (Golden Yellow), and HLA-DR Rabbit PolymAb® (A26694PM, 1:1600) with TSA-TYR-570 (Pale Pinkish White), and HLA-A Rabbit mAb (A11406, 1:200) with TSA-TYR-620 (Magenta), and CD11c Rabbit PolymAb® (A28244PM, 1:4000) with TSA-TYR-690 (Red), and CD20 Rabbit mAb (A4893, 1:1000) with TSA-TYR-480 (Yellow-Green), and CD14 Rabbit mAb (A19011, 1:800) with TSA-TYR-520 (Dark Green), and [KO Validated] CD44 Rabbit mAb (A19020, 1:4000) with TSA-TYR-570 (Brown), and NCAM Rabbit PolymAb® (A27193PM, 1:5000) with TSA-TYR-620 (Light Pink), and CD68 Rabbit PolymAb® (A24386PM, 1:8000) with TSA-TYR-690 (Yellow), and CD3E Rabbit mAb (A19017, 1:4000) with TSA-TYR-520 (Cream), and CD4 Rabbit PolymAb® (A26036PM, 1:400) with TSA-TYR-570 (Light Tan), and CD8A Rabbit PolymAb® (A23305PM, 1:1000) with TSA-TYR-690 (Orange). DAPI (White) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.