Anti-CD79a Antibody [JE32-14]

HA722896

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 25 kDa
Clone number:	JE32-14

Description: Required in cooperation with CD79B for initiation of the signal transduction cascade activated by binding of antigen to the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. Also required for BCR surface expression and for efficient differentiation of pro- and pre-B-cells. Stimulates SYK autophosphorylation and activation. Binds to BLNK, bringing BLNK into proximity with SYK and allowing SYK to phosphorylate BLNK. Also interacts with and increases activity of some Src-family tyrosine kinases. Represses BCR signaling during development of immature B-cells.

Immunogen: Synthetic peptide within human CD79a aa 51-100 / 226.

Positive control: Ramos cell lysate, Daudi cell lysate, Raji cell lysate, Daudi, human colon tissue, human lung cancer tissue, human spleenr tissue.

Subcellular location: Cell membrane

Database links: SwissProt: P11912 Human

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:50
IHC-P	1:200-1:1,000
IF-Tissue	1:50

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

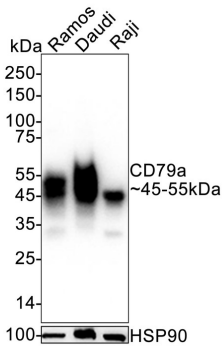

Fig1: Western blot analysis of CD79a on different lysates with Rabbit anti-CD79a antibody (HA722896) at 1/1,000 dilution.

Lane 1: Ramos cell lysate
Lane 2: Daudi cell lysate
Lane 3: Raji cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 25 kDa
Observed band size: 45-55 kDa

Exposure time: 14 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722896) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

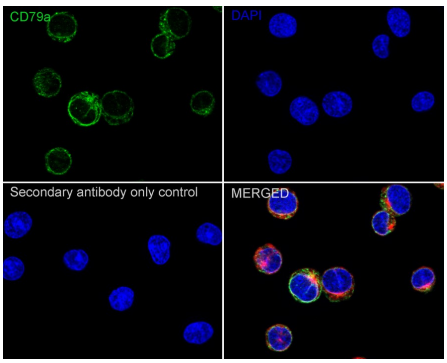

Fig2: Immunocytochemistry analysis of Daudi cells labeling CD79a with Rabbit anti-CD79a antibody (HA722896) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-CD79a antibody (HA722896) at 1/100 dilution in 1% BSA in PBST overnight at 4 ℃. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4℃. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

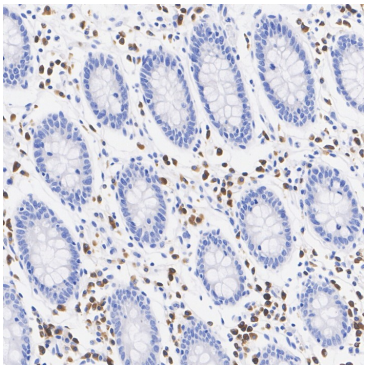

Fig3: Immunohistochemical analysis of paraffin-embedded human colon tissue with Rabbit anti-CD79a antibody (HA722896) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA722896) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

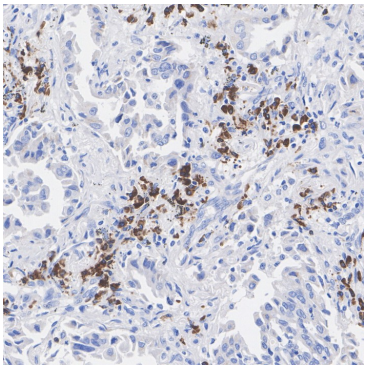

Fig4: Immunohistochemical analysis of paraffin-embedded human lung cancer tissue with Rabbit anti-CD79a antibody (HA722896) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA722896) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

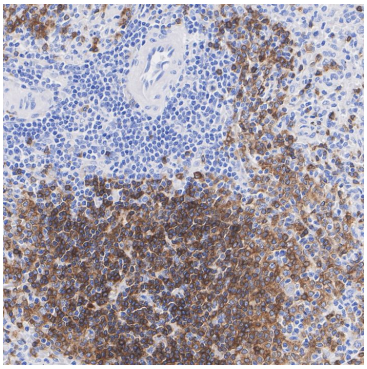

Fig5: Immunohistochemical analysis of paraffin-embedded human spleenr tissue with Rabbit anti-CD79a antibody (HA722896) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA722896) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

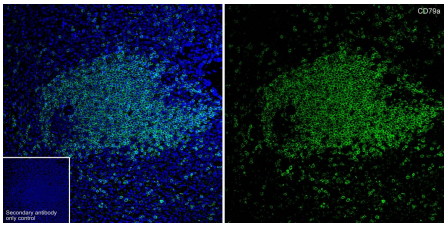

Fig6: Application: IF-Tissue

Species: Human

Site: spleen

Sample: Paraffin-embedded section

Antibody concentration: 1/50

Background References

1. Lenk L, Carlet M, Vogiatzi F, Spory L, Winterberg D, Cousins A, Vossen-Gajcy M, Ibruli O, Vokuhl C, Cario G, El Ayoubi O, Kramer L, Ritgen M, Brüggemann M, Häsler R, Schrappe M, Fuhrmann S, Halsey C, Jeremias I, Hobeika E, Jumaa H, Alsadeq A, Schewe DM. CD79a promotes CNS-infiltration and leukemia engraftment in pediatric B-cell precursor acute lymphoblastic leukemia. Commun Biol. 2021 Jan 15;4(1):73. doi: 10.1038/s42003-020-01591-z. PMID: 33452446; PMCID: PMC7810877.

2. Lenk L, Carlet M, Vogiatzi F, Spory L, Winterberg D, Cousins A, Vossen-Gajcy M, Ibruli O, Vokuhl C, Cario G, El Ayoubi O, Kramer L, Ritgen M, Brüggemann M, Häsler R, Schrappe M, Fuhrmann S, Halsey C, Jeremias I, Hobeika E, Jumaa H, Alsadeq A, Schewe DM. CD79a promotes CNS-infiltration and leukemia engraftment in pediatric B-cell precursor acute lymphoblastic leukemia. Commun Biol. 2021 Jan 15;4(1):73. doi: 10.1038/s42003-020-01591-z. PMID: 33452446; PMCID: PMC7810877.