

Anti-CD43 Antibody [PD01-28]

HA721219



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 40 kDa
Clone number:	PD01-28

Description: Predominant cell surface sialoprotein of leukocytes which regulates multiple T-cell functions, including T-cell activation, proliferation, differentiation, trafficking and migration. Positively regulates T-cell trafficking to lymph-nodes via its association with ERM proteins (EZR, RDX and MSN) (By similarity). Negatively regulates Th2 cell differentiation and predisposes the differentiation of T-cells towards a Th1 lineage commitment. Promotes the expression of IFN-gamma by T-cells during T-cell receptor (TCR) activation of naive cells and induces the expression of IFN-gamma by CD4+ T-cells and to a lesser extent by CD8+ T-cells. Plays a role in preparing T-cells for cytokine sensing and differentiation into effector cells by inducing the expression of cytokine receptors IFNGR and IL4R, promoting IFNGR and IL4R signaling and by mediating the clustering of IFNGR with TCR. Acts as a major E-selectin ligand responsible for Th17 cell rolling on activated vasculature and recruitment during inflammation. Mediates Th17 cells, but not Th1 cells, adhesion to E-selectin. Acts as a T-cell counter-receptor for SIGLEC1 (By similarity). CD43 cytoplasmic tail: Protects cells from apoptotic signals, promoting cell survival. CD43 is a transmembrane protein involved in immune function and T-cell activation. Anti-CD43 reactivity is seen in T lymphocytes, monocytes, and granulocytes. No reactivity has been observed in normal or reactive B-cells. Reportedly, anti-CD43 reactivity is seen in the majority of T-cell lymphomas and some low grade B-cell lymphomas. Therefore, anti-CD43 is a useful immunohistochemical marker for the identification of T-cell lymphomas and some low grade B-cell lymphomas.

Immunogen: Synthetic peptide within Human CD43 aa 200-300 (internal sequence).

Positive control: Human B-cell lymphoma tissue, human tonsil tissue.

Subcellular location: Membrane, microvillus, uropodium, nucleus.

Database links: SwissProt: P16150 Human

Recommended Dilutions:

IHC-P 1:5,000

IF-Tissue 1:1,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

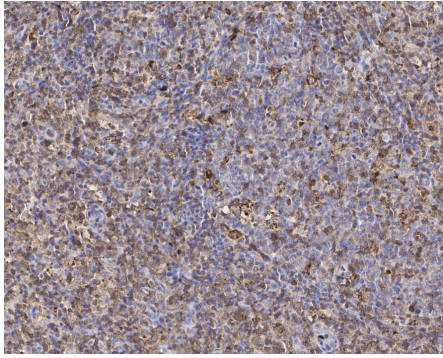


Fig1: Immunohistochemical analysis of paraffin-embedded human B-cell lymphoma tissue with Rabbit anti-CD43 antibody (HA721219) at 1/5,000 dilution.

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 ddH₂O and PBS, and then probed with the primary antibody (HA721219) at 1/5,000 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.

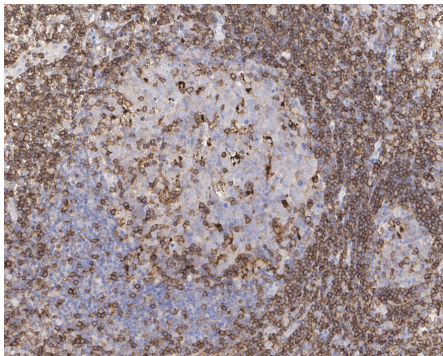


Fig2: Immunohistochemical analysis of paraffin-embedded human tonsil tissue with Rabbit anti-CD43 antibody (HA721219) at 1/5,000 dilution.

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 ddH₂O and PBS, and then probed with the primary antibody (HA721219) at 1/5,000 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.

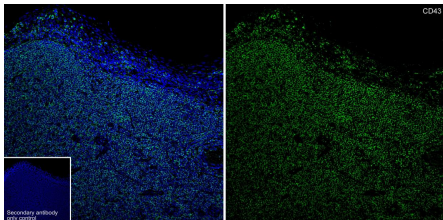


Fig3: Application: IF-Tissue

Species: Human

Site: tonsil

Sample: Paraffin-embedded section

Antibody concentration: 1/1,000

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Ramirez-Pliego O et al. CD43 signals induce type one lineage commitment of human CD4⁺ T cells. BMC Immunol. 8:30-30(2007)
2. Galindo-Albarran A.O et al. CD43 signals prepare human T cells to receive cytokine differentiation signals. J. Cell. Physiol. 229:172-180(2014)

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