

# Anti-CD43 Antibody [A2F9]

## EM1901-71



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 40 kDa
<b>Clone number:</b>	A2F9

**Description:** This gene encodes a highly sialylated glycoprotein that functions in antigen-specific activation of T cells, and is found on the surface of thymocytes, T lymphocytes, monocytes, granulocytes, and some B lymphocytes. It contains a mucin-like extracellular domain, a transmembrane region and a carboxy-terminal intracellular region. 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). 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.

<b>Immunogen:</b>	Synthetic peptide within C-terminal human CD43.
<b>Positive control:</b>	K-562 cell lysate, HL-60 cell lysate, THP-1 cell lysate, U-937 cell lysate, human tonsil tissue, HL-60.
<b>Subcellular location:</b>	Membrane, microvillus, uropodium; Nucleus, PML body.
<b>Database links:</b>	SwissProt: P16150 Human
<b>Recommended Dilutions:</b>	
<b>WB</b>	1:1,000
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:50-1:100
<b>Storage Buffer:</b>	1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.
<b>Storage Instruction:</b>	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.
<b>Purity:</b>	Protein G affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

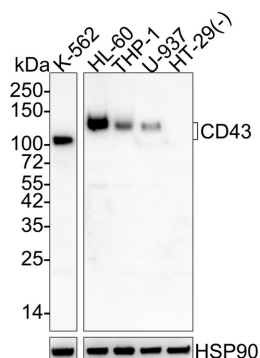
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## Images

**Fig1:** Western blot analysis of CD43 on different lysates with Mouse anti-CD43 antibody (EM1901-71) at 1/1,000 dilution.

Lane 1: K-562 cell lysate  
 Lane 2: HL-60 cell lysate  
 Lane 3: THP-1 cell lysate  
 Lane 4: U-937 cell lysate  
 Lane 5: HT-29 cell lysate (negative)



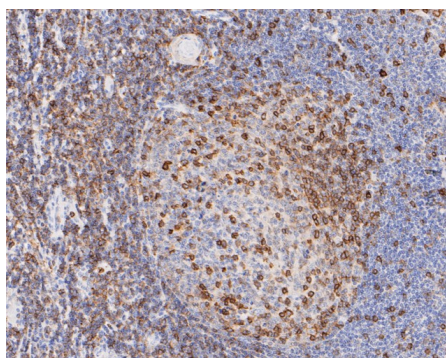
Lysates/proteins at 20 µg/Lane.

Predicted band size: 40 kDa  
 Observed band size: 100-130 kDa

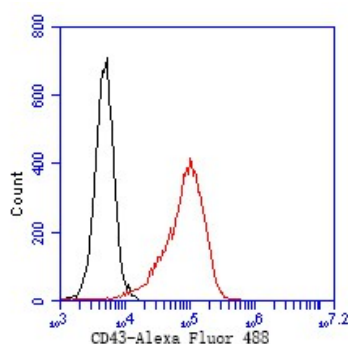
Exposure time: 1 minute 2 seconds;

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 (EM1901-71) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.



**Fig2:** Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CD43 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (EM1901-71, 1/200) for 30 minutes 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:** Flow cytometric analysis of CD43 was done on HL-60 cells. The cells were fixed, permeabilized and stained with the primary antibody (EM1901-71, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Mouse IgG Secondary antibody at 1/1,000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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

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### Background References

1. Fay KT. et. al. Increased mortality in CD43-deficient mice during sepsis. PLoS One. 2018 Sep 18;13(9):e0202656.
2. Ma XB. et. al. Coexpression of CD5 and CD43 predicts worse prognosis in diffuse large B-cell lymphoma. Cancer Med. 2018 Sep;7(9):4284-4295.

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