

CD43 Monoclonal Antibody (MEM-59)

Catalog NumberMA1-19009

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	1-5 µg/mL
Clone	MEM-59	Functional Assay (FN)	Assay-Dependent
Immunogen	Human T lymphocytes.	Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL
Conjugate	Unconjugated	Immunoprecipitation (IP)	Assay-dependent
Form	Liquid	Western Blot (WB)	Assay-dependent
Concentration	1 mg/mL	Published Applications	
Purification	Protein A	Western Blot (WB)	See 1 publications below
Storage buffer	PBS, pH 7.4	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Contains	no preservative		
Storage Conditions	4° C, do not freeze		

Product specific information

Low endotoxin azide free phosphate buffered saline (PBS) solution, 0.2 µm filter sterilized. Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test. Functional Application: Induction.

Background/Target Information

CD43 (leukosialin, sialophorin) is a transmembrane mucin-like protein with high negative charge, expressed on the surface of most hematopoietic cells. CD43 contributes to a repulsive barrier that interferes with cellular adhesion, however, in certain cases also promotes leukocyte aggregation. By interaction with actin-binding proteins ezrin and moesin CD43 plays a regulatory role in remodeling T-cell morphology and regulates cell-cell interactions during lymphocyte traffic. CD43 signaling both enhances LFA-1 adhesiveness and counteracts LFA-1 induction via other receptors. Expression of CD43 causes induction of functionally active tumor suppressor p53 protein, but in case of p53 and ARF deficiency CD43 promotes tumor proliferation and viability. CD43 appears to be an important modulator of leukocyte functions. Diseases associated with CD43 dysfunction include Wiscott-Aldrich Syndrome and Adenoid Basal Cell Carcinoma.

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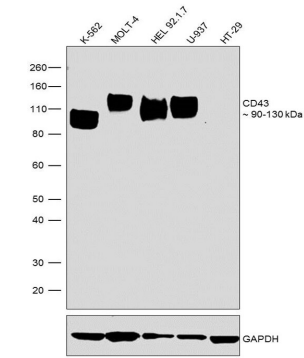
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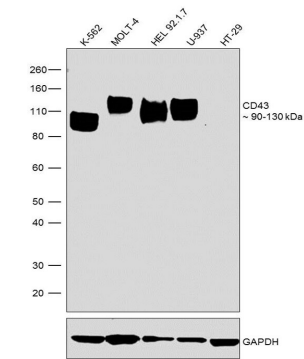
CD43 Antibody (MA1-19009)

Antibody specificity was demonstrated by detection of differential basal expression of the target across the cell lines tested owing to their inherent genetic constitution. Relative expression of CD43 was observed in K-562, MOLT-4, HEL 92.1.7, U-937 in comparison to HT-29, a negative cell line for CD43, using Anti-CD43 Monoclonal Antibody (Product # MA1-19009) in Western Blot (DOI: 10.1016/j.yexmp.2011.10.009). {RE}



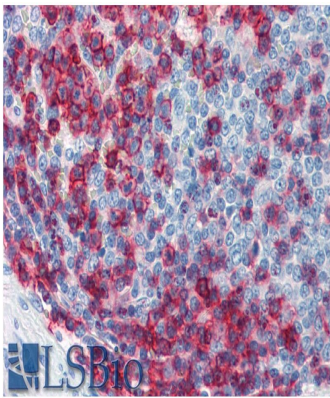
CD43 Antibody (MA1-19009) in WB

Western blot was performed using Anti-CD43 Monoclonal Antibody (Product # MA1-19009) and bands around 90-130 kDa corresponding to CD43 were observed in the cell lines tested except HT-29 which is reported to be negative. Membrane enriched extracts (30 µg lysate) of K-562 (Lane 1), MOLT-4 (Lane 2), HEL 92.1.7 (Lane 3), U-937 (Lane 4) and HT-29 (Lane 5) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # LC2001) by XCell SureLock™ Mini-Cell and XCell II™ Blot Module (Product # EI0002). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



CD43 Antibody (MA1-19009) in IHC (P)

Immunohistochemistry staining of human spleen (paraffin sections) using anti-CD43 (MEM-59) Monoclonal antibody (Product # MA1-19009).



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PubMed References For CD43 Monoclonal Antibody (MEM-59)

1 Western Blot References

Species / Dilution	Summary
Human / Not Cited	<p>MA1-19009 was used in Western Blotting to identify the cell surface antigens involved in the cell-to-cell transmission of human T cell leukemia virus type 1.</p> <p>Journal of virology (2012; 86: 2447)</p> <p>"Role of O-glycosylation and expression of CD43 and CD45 on the surfaces of effector T cells in human T cell leukemia virus type 1 cell-to-cell infection."</p> <p>Author(s):Mazurov D,Ilinskaya A,Heidecker G,Filatov A</p> <p>PubMed Article URL:http://dx.doi.org/10.1128/JVI.06993-11</p>

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