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CD24 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1822a

Product Information

Application	WB, FC, E
Primary Accession	P25063
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4F4E10
Isotype	IgG1
Calculated MW	8083
Description	This gene encodes a sialoglycoprotein that is expressed on mature granulocytes and in many B cells. The encoded protein is anchored via a glycosyl phosphatidylinositol (GPI) link to the cell surface.
Immunogen	Purified recombinant fragment of human CD24 (AA: 15-80) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	100133941
Other Names	Signal transducer CD24, Small cell lung carcinoma cluster 4 antigen, CD24, CD24, CD24A
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD24 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD24
Synonyms	CD24A
Function	May have a pivotal role in cell differentiation of different cell types. Signaling could be triggered by the binding of a lectin- like ligand to the CD24

carbohydrates, and transduced by the release of second messengers derived from the GPI-anchor. Modulates B-cell activation responses. Promotes AG-dependent proliferation of B-cells, and prevents their terminal differentiation into antibody-forming cells (PubMed:11313396). In association with SIGLEC10 may be involved in the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) such as HMGB1, HSP70 and HSP90. Plays a role in the control of autoimmunity (By similarity).

Cellular Location Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Location B-cells. Expressed in a number of B-cell lines including P32/ISH and Namalwa. Expressed in erythroleukemia cell and small cell lung carcinoma cell lines. Also expressed on the surface of T-cells.

Background

This gene encodes a sialoglycoprotein that is expressed on mature granulocytes and in many B cells. The encoded protein is anchored via a glycosyl phosphatidylinositol (GPI) link to the cell surface. ; ;

References

1. Cancer Res. 2012 Nov 1;72(21):5600-12. 2. Stem Cell Rev. 2012 Sep;8(3):779-91.

Images

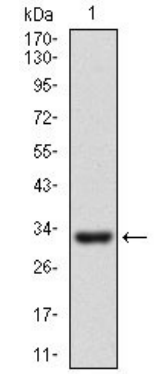


Figure 1: Western blot analysis using CD24 mAb against human CD24 recombinant protein. (Expected MW is 32.1 kDa)

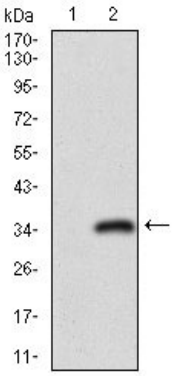
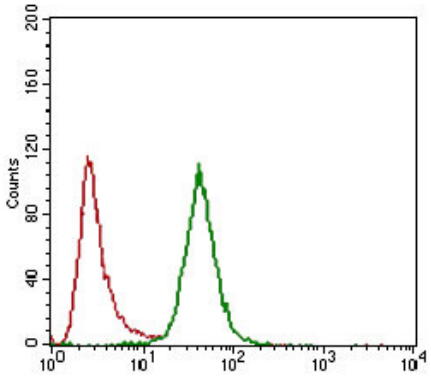


Figure 2: Western blot analysis using CD24 mAb against HEK293 (1) and CD24 (AA: 15-80)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 3: Flow cytometric analysis of Hela cells using CD24 mouse mAb (green) and negative control (red).



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