

**DATASHEET**

**CD53 Mouse Monoclonal Antibody(C2608)**

CAT. NO. AMA02220

**KEY FEATURES**

Target	CD53	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IHC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG2a. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

**BACKGROUND**

Structural component of specialized membrane microdomains known as tetraspanin-enriched microdomains (TERMs), which act as platforms for receptor clustering and signaling, which act as platforms for receptor clustering and signaling. Participates thereby in diverse biological functions such as cell signal transduction, adhesion, migration and protein trafficking. Plays a role in the activation of monocytes and B-cells. Acts as an essential regulator of B-cell development by promoting interleukin-7 receptor/IL7R signaling. Also promotes, in B-cells, the BCR signaling by recruiting PKC to the plasma membrane in order to phosphorylate its substrates. Plays an essential role in B- and T-cells homing to lymph nodes by stabilizing L-selectin/SELL cell surface expression.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:500
FC	1:100 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Mouse monoclonal to CD53
Specificity	Recognizes endogenous levels of CD53 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human CD53 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 24 kD; Observed: 40 kD kD
Form/Buffer	Mouse IgG2a. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	MOX44; TSPAN25; Leukocyte surface antigen CD53; Cell surface glycoprotein CD53; Tetraspanin-25; Tspan-25; CD53
Gene Symbol	CD53
Entrez Gene	963(Human)
SwissProt	P19397(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

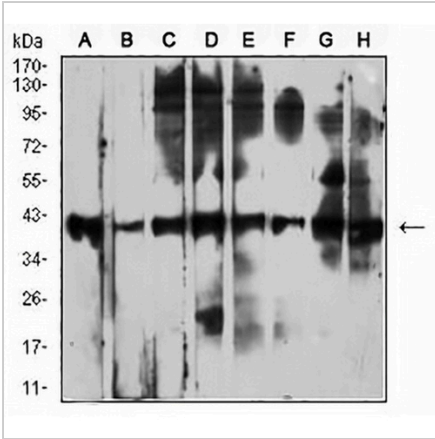
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

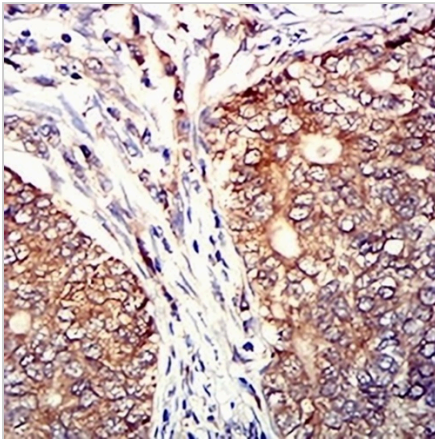
**CD53 Mouse Monoclonal Antibody(C2608)**

CAT. NO. AMA02220

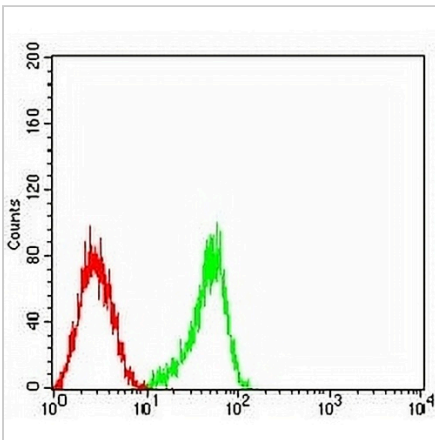
**DATA**



Western blot analysis of CD53 expression in Raji (A), Ramos (B), Jurkat (C), MOLT4 (D), K562 (E), HL60 (F), THP1 (G), U937 (H) whole cell lysates. (Predicted band size: 24 kD; Observed band size: 40 kD)



Immunohistochemical analysis of CD53 staining in human cervical cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HL60 cells using Anti-CD53 Antibody (green) and negative control (red).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.