

**DATASHEET**

**CD9 Mouse Monoclonal Antibody(HI9a)**

CAT. NO. AMA03794

**KEY FEATURES**

Target	CD9	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, and 0.02% sodium azide.	Storage	at-20°C

**BACKGROUND**

Integral membrane protein associated with integrins, which regulates different processes, such as sperm-egg fusion, platelet activation and aggregation, and cell adhesion . Present at the cell surface of oocytes and plays a key role in sperm-egg fusion, possibly by organizing multiprotein complexes and the morphology of the membrane required for the fusion . In myoblasts, associates with CD81 and PTGFRN and inhibits myotube fusion during muscle regeneration . In macrophages, associates with CD81 and beta-1 and beta-2 integrins, and prevents macrophage fusion into multinucleated giant cells specialized in ingesting complement-opsonized large particles . Also prevents the fusion between mononuclear cell progenitors into osteoclasts in charge of bone resorption .

**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
IF/ICC	1:50 - 1:200
FC	1:500 - 1:2000

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

**PRODUCT OVERVIEW**

Description	Mouse monoclonal antibody to CD9
Specificity	Recognizes human CD9
Antibody Type	Primary antibody
Immunogen	Native purified human CD9.
Purification	The antibody was purified by affinity chromatography.
Molecular Weight	Predicted: 25 kD; Observed: 24 kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, and 0.02% sodium azide.
Alternative Names	MIC3; TSPAN29; CD9 antigen; 5H9 antigen; Cell growth-inhibiting gene 2 protein; Leukocyte antigen MIC3; Motility-related protein; MRP-1; Tetraspanin-29; Tspan-29; p24; CD antigen CD9
Gene Symbol	CD9
Entrez Gene	928(Human)
SwissProt	P21926(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.

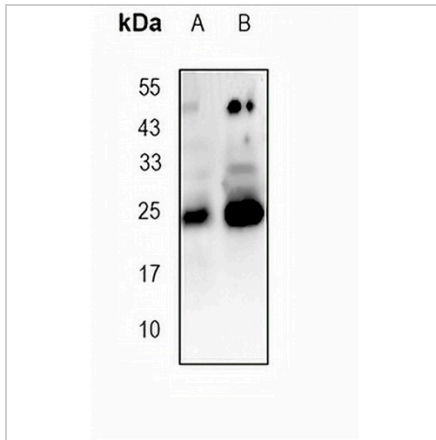
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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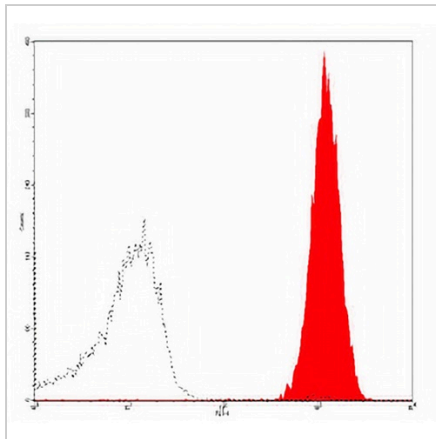
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**DATA**



Western blot analysis of CD9 expression in mouse brain (A), mouse lung (B) whole cell lysates. (Predicted band size: 25 kD; Observed band size: 24 kD)



Flow cytometric analysis of human platelet using Anti-CD9 Antibody, followed by anti-mouse IgG PE.

**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.