

**DATASHEET**

**CD71 Mouse Monoclonal Antibody(C2989)**

CAT. NO. AMA02601

**KEY FEATURES**

Target	CD71	Source / Host	Mouse
Reactivity	Human, Mouse, Rat, Monkey	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

**BACKGROUND**

Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system. A second ligand, the hereditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site. Positively regulates T and B cell proliferation through iron uptake. Acts as a lipid sensor that regulates mitochondrial fusion by regulating activation of the JNK pathway.

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

**PRODUCT OVERVIEW**

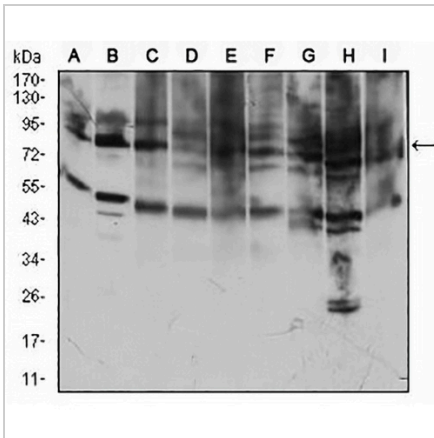
Description	Mouse monoclonal to CD71
Specificity	Recognizes endogenous levels of CD71 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human CD71 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 85 kD; Observed: 85 kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Transferrin receptor protein 1; TR; TfR; TfR1; Trfr; T9; p90; CD71
Gene Symbol	TFRC
Entrez Gene	7037(Human); 22042(Mouse); 7037(Rat)
SwissProt	P02786(Human); Q62351(Mouse); Q99376(Rat)

\*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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**DATA**

Western blot analysis of CD71 expression in Jurkat (A), HeLa (B), K562 (C), COS7 (D), MCF7 (E), PC12 (F), NIH/3T3 (G), HEK293 (H), Raji (I) whole cell lysates. (Predicted band size: 85 kD; Observed band size: 85 kD)

**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.