

Datasheet for 112-4139**Rat Red Blood Cell RBC Antibody****Overview**

Description:	Anti-Rat Red Blood Cell (RBC) (RABBIT) Antibody - 112-4139
Item No.:	112-4139
Size:	2 mL
Applications:	Agglutination, IHC, Multiplex
Host Species:	Rabbit

Product Details

Background:	Anti-Rat Red Blood Cells Antibody recognizes rat red blood cells and can be used in a variety of agglutination assays where agglutination or clumping of red blood cells is a positive indication of the presence of an analyte, virus particle or bacteria. Red blood cells (RBCs), also known as erythrocytes, are metabolically active cells that are highly adapted to serve their function in blood gas exchange (oxygen/CO ₂ transport). The red blood cells enable the transport of sufficient O ₂ between respiratory surfaces (lungs, gills) and metabolizing tissues by means of their high intracellular concentration of hemoglobin.
Synonyms:	rabbit Anti-rat RBC antibody, Red blood cell antibody, Antibody for hemagglutination, rabbit anti-rat red blood cell, rabbit antibody to rat red blood cells (RBC), haemolysin, hemolysin, erythrocytes sensitizing agent, anti-erythrocytes, anti-erythrocytes antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Immunogen:	Rat washed pooled Red Blood Cells (RBC)
Purity/Specificity:	This product was prepared from polyspecific antiserum by a delipidation and defibrination.
Relevant Links:	112-4139 SDS

Application Details

Tested Applications:	Agglutination
Suggested Applications:	IHC, Multiplex (Based on references)
Application Note:	Anti-Rat Red Blood Cells Antibody is suitable for sensitizing cells in hemolytic complement assays, and for lymphocyte screening procedures.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Tissue Data

Tissue Type:	Red Blood Cells
Strain:	Rat - Sprague Dawley

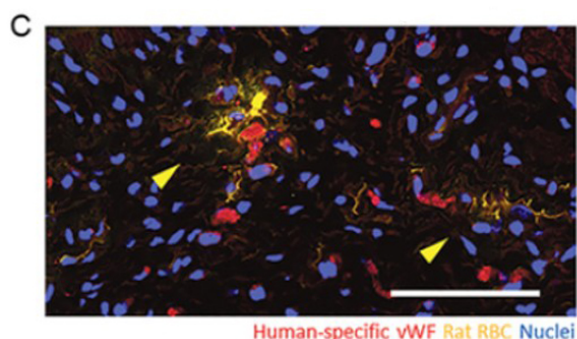
Formulation

Physical State:	Lyophilized
Concentration:	90 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Sterility:	Non-sterile
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Sections stained for rat RBCs confirmed perfusion of the human vessel lumen with rat RBCs in the BMV-CSC patch-recipient hearts (Figure 7C), suggesting the anastomosis of patch microvessels with the host vasculature.

(C) Rat RBC stain (yellow) showing the RBCs in perfused vWF-positive human vessels (red) in the peri-infarct region of BMV-CSC patch-treated hearts at week 4. Scale bars, 50 μ m. Fig 7. PMID: 30188113

References

- Su T et al. Cardiac stem cell patch integrated with microengineered blood vessels promotes cardiomyocyte proliferation and neovascularization after acute myocardial infarction. *ACS Appl Mater Interfaces*. (2018)

Disclaimer

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