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Datasheet for 109-4139

Human Red Blood Cell RBC Antibody

Overview

Description:	Anti-Human Red Blood Cell (RBC) (RABBIT) Antibody - 109-4139
Item No.:	109-4139
Size:	2 mL
Applications:	Agglutination, Cellular Assay, FC
Host Species:	Rabbit

Product Details

Background:	Anti-Human Red Blood Cells Antibody recognizes human 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/CO2 transport). The red blood cells enable the transport of sufficient O2 between respiratory surfaces (lungs, gills) and metabolizing tissues by means of their high intracellular concentration of hemoglobin.
Synonyms:	rabbit Anti-human RBC antibody, Red blood cell antibody, Antibody for hemagglutination, rabbit anti-RBC, rabbit antibody to human red blood cells (RBC), haemolysin, hemolysin, erythrocytes sensitizing agent, anti-erythrocytes, anti-erythrocytes antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Immunogen:	Human washed pooled Red Blood Cells (RBC)
Purity/Specificity:	This product was prepared from polyspecific antiserum by a delipidation and defibrination.
Relevant Links:	• 109-4139 SDS

Application Details

Tested Applications:	Agglutination
Suggested Applications:	Cellular Assay, FC (Based on references)
Application Note:	Anti-Human Red Blood Cells Antibody has been tested by agglutination and 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

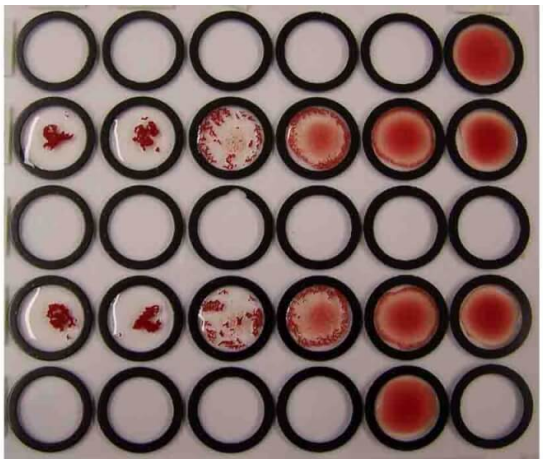
Formulation

Physical State:	Lyophilized
Concentration:	85 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



Agglutination
Agglutination Test

References

- Marathe JG et al. Complement protein concentrations and activity in human cervical mucus. *bioRxiv [Preprint].* (2026)
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- Caielli S. et al. Erythroid mitochondrial retention triggers myeloid-dependent type I interferon in human SLE. *Cell.* (2021)
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- Steinkuhler J et al. Membrane fluctuations and acidosis regulate cooperative binding of 'marker of self'protein CD47 with the macrophage checkpoint receptor SIRPα. *J Cell Sci.* (2018)
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- Akutsu H et al. Xenogeneic-free defined conditions for derivation and expansion of human embryonic stem cells with mesenchymal stem cells. *Regen Ther.* (2015)
- Chen AE et al. Derivation of human embryonic stem cells by immunosurgery. *J Vis Exp.* (2007)

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