

Datasheet for 110-4139**Mouse Red Blood Cell RBC Antibody****Overview**

Description:	Anti-Mouse Red Blood Cell (RBC) (RABBIT) Antibody - 110-4139
Item No.:	110-4139
Size:	2 mL
Applications:	Agglutination, Cellular Assay
Host Species:	Rabbit

Product Details

Background:	Anti-Mouse Red Blood Cells Antibody recognizes mouse 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-mouse RBC antibody, Red blood cell antibody, Antibody for hemagglutination, rabbit anti-mouse red blood cell, rabbit antibody to mouse red blood cells (RBC), haemolysin, hemolysin, erythrocytes sensitizing agent, anti-erythrocytes, anti-erythrocytes antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Immunogen:	Mouse washed pooled Red Blood Cells (RBC)
Purity/Specificity:	This product was prepared from polyspecific antiserum by a delipidation and defibrination.
Relevant Links:	• 110-4139 SDS

Application Details

Tested Applications:	Agglutination
Suggested Applications:	Cellular Assay (Based on references)
Application Note:	Anti-Mouse 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
---------------------	-----------------

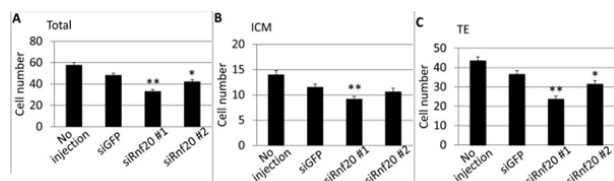
Formulation

Physical State:	Lyophilized
Concentration:	55 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



Figure

Embryos were collected at the blastocyst stage 96 h after insemination and treated with anti-mouse red blood cells (p/n 110-4139; 1:100) in α -MEM for 30 min at 37 C. Effect of Rnf20 knockdown on the cell numbers in embryos at the blastocyst stage. The embryos were injected with small interfering RNAs against Rnf20 (siRnf20 #1 and #2) or green fluorescent protein (siGFP) 2 h after insemination and collected at the blastocyst stage 96 h after insemination. The numbers of cells in the whole embryos (A), in the inner cell mass (ICM; B) and in the trophectoderm (TE; C) were determined. For the determination of cell numbers in the ICM and TE, the nuclei of the embryos were stained differentially after immunosurgery. Four independent experiments were performed, and the data were accumulated. In each experimental group, more than 44 embryos were analyzed in total. Error bars indicate standard errors (SE). Values indicated by asterisks are significantly lower than those of the control embryos (siGFP) (based on the Student's t-test; *P < 0.05; **P < 0.01). Fig 4. PMID: 25740253

References

- Choi et al. DUSP9 Modulates DNA Hypomethylation in Female Mouse Pluripotent Stem Cells. *Cell Stem Cell* (2017)
- Ooga et al. Involvement of histone H2B monoubiquitination in the regulation of mouse preimplantation development. *Journal of Reproduction and Development* (2015)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.