

GMP PE/Cyanine7 anti-human CD71 Antibody

Catalog# / Size	260340 / 100 tests
Clone	CY1G4
Workshop	A015
Other Names	T9, Transferrin receptor
Isotype	Mouse IgG2a, κ
Description	CD71 is a 95 kD type II homodimeric transmembrane glycoprotein also known as T9 and transferrin receptor. It is expressed on proliferating cells, reticulocytes, and erythroid precursors. CD71 plays a role in the control of cellular proliferation by facilitating the uptake of iron via ferrotransferrin binding and the recycling of apotransferrin to the cell surface.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	NALM-6 pre-B cell line
Formulation	Phosphate-buffered solution, pH 7.2, containing True-Stain Monocyte Blocker™, 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	100 µg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application References	1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
(PubMed link indicates BioLegend citation)	
Disclaimer	GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include: <ul style="list-style-type: none">• Batch-to-batch consistency• Material traceability• Documented procedures• Documented employee training• Equipment maintenance and monitoring records• Lot-specific certificates of analysis• Quality audits per ISO 13485:2016• QA review of released products

Antigen Details

Structure	Transferrin receptor family, type II glycoprotein, 95 kD
Distribution	Proliferating cells, reticulocytes, erythroid precursors
Function	Mediates uptake of iron
Ligand/Receptor	Transferrin
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Hentze M, et al. 1996. <i>P. Natl. Acad. Sci. USA</i> 93:8175. 2. Trowbridge I, et al. 1993. <i>Annu. Rev. Cell Biol.</i> 9:129.
Gene ID	7037

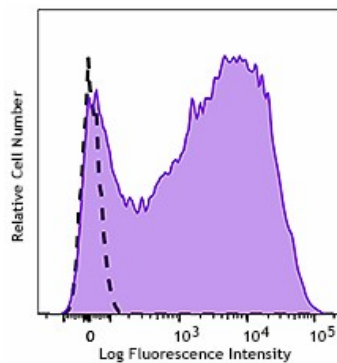
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD71, FITC anti-human CD71, PE anti-human CD71, APC anti-human CD71, APC/Cyanine7 anti-human CD71, PE/Cyanine7 anti-human CD71, PerCP/Cyanine5.5 anti-human CD71, Alexa Fluor® 647 anti-human CD71, Brilliant Violet 650™ anti-human CD71, Brilliant Violet 421™ anti-human CD71, PE/Dazzle™ 594 anti-human CD71, TotalSeq™-A0394 anti-human CD71, TotalSeq™-C0394 anti-human CD71, TotalSeq™-B0394 anti-human CD71, Alexa Fluor® 700 anti-human CD71 Antibody, TotalSeq™-D0394 anti-human CD71, APC/Fire™ 750 anti-human CD71, PE/Cyanine5 anti-human CD71

Product Data



Typical results from PHA-stimulated (3-day) human peripheral blood lymphocytes stained either with CY1G4 PE/Cyanine7 used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

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