

# Anti-Human CD71-168Er

Catalog: 3168014B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Reactivity: Human

Clone: OKT-9

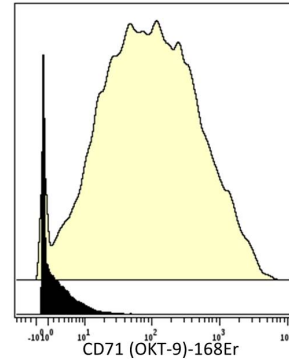
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF<sup>®</sup> analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

**Recommended Usage:** The suggested use is 1 µl for up to 3 X 10<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs were incubated for 3 days in media alone (bottom) or with PHA (top). Cells were then stained with 168Er-anti-CD71 (OKT-9).

## Description

CD71 is an integral membrane protein that mediates the uptake of transferrin-iron complexes. CD71 is a homodimeric glycoprotein that binds to diferric transferrin at the cell surface, and is most highly expressed on placental syncytiotrophoblasts, myocytes, basal keratinocytes, hepatocytes, endocrine pancreas, spermatocytes, and erythroid precursors. The maturation of erythroid precursors to erythrocytes results in loss of transferrin receptor expression, in concert with down-regulation of the machinery for hemoglobin synthesis. The high level of transferrin receptor within erythroid precursors makes it an excellent potential marker for evaluating erythroid elements within the bone marrow. CD71 has been studied for use in the assessment of leukemias and myelodysplastic syndromes (MDSs) in flow cytometric studies, in which expression serves as a lineage marker for the diagnosis of erythroid leukemia.

## References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

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EMAIL **United States and other countries not in Europe or Asia** [techsupport@fluidigm.com](mailto:techsupport@fluidigm.com) **Europe** [techsupporteurope@fluidigm.com](mailto:techsupporteurope@fluidigm.com) | **Asia** [techsupportasia@fluidigm.com](mailto:techsupportasia@fluidigm.com)  
 PHONE **United States (toll-free)** +1 866 358 4354 | **Europe** +33 1 60 92 42 40 | **Japan** +81 3 3662 2150 | **China** +86 21 3255 8368 | **All other countries** +1 650 266 6100

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