

## TECHNICAL DATA SHEET

### CyFlow™ CD35 Purified Anti-Hu; Clone E11

**REF** CZ392305

**For Research Use Only.**

**Not for use in diagnostic or therapeutic procedures.**

### Specifications

<b>Antigen</b>	CD35
<b>Alternative Names</b>	CR1, C3b/C4b-R
<b>Clone</b>	E11
<b>Clonality</b>	monoclonal
<b>Format</b>	Purified
<b>Host / Isotype</b>	Mouse / IgG1
<b>Species Reactivity</b>	Human, Non-Human Primates
<b>Negative Species Reactivity</b>	—
<b>Quantity [Concentration]</b>	0.1 mg [ 1 mg/ml ]
<b>Immunogen</b>	Acute monocytic leukemia cells and normal blood monocytes

### Specificity

The mouse monoclonal antibody E11 recognizes CD35 antigen, a type I glycoprotein expressed on granulocytes, monocytes, B cells, follicular dendritic cells, erythrocytes, NK and T cell subsets, as well as e.g. on glomerular podocytes.

#### Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

## Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry
- Immunocytochemistry

## Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH  $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

<b>Storage</b>	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
<b>Stability</b>	Do not use after expiration date stamped on vial label.

## Background Information

CD35 (CR1; complement receptor 1) is a monomeric multiple modular cell surface glycoprotein which serves as receptor for C3b and C4b, the most important components of the complement system leading to clearance of foreign macromolecules. It is expressed mainly on the surface of granulocytes, monocytes, erythrocytes, B cells and follicular dendritic cells. Besides its role in complement cascade, CD35 is involved in blocking BCR-induced proliferation and the differentiation of B cells to plasmablasts and their Ig production.

## References

- Hogg N, Ross GD, Jones DB, Slusarenko M, Walport MJ, Lachmann PJ: Identification of an anti-monocyte monoclonal antibody that is specific for membrane complement receptor type one (CR1). Eur J Immunol. 1984 Mar; 14(3):236-43. < PMID: 6368248 >
- McMichael AJ, Beverley PCL, Ceballos S, et al. (Eds): Leucocyte Typing III, White Cell Differentiation Antigens. Oxford University Press, Oxford. 1987; 1-1050. < NLM ID: 8913266 >
- Nielsen CH, Pedersen ML, Marquart HV, Proding WM, Leslie RG: The role of complement receptors type 1 (CR1, CD35 and 2 (CR2, CD21 in promoting C3 fragment deposition and membrane attack

---

### Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

complex formation on normal peripheral human B cells. Eur J Immunol. 2002 May; 32(5):1359-67.  
< PMID: 11981823 >

- Kremlitzka M, Polgár A, Fülöp L, Kiss E, Poór G, Erdei A: Complement receptor type 1 (CR1, CD35 is a potent inhibitor of B-cell functions in rheumatoid arthritis patients. Int Immunol. 2013 Jan; 25(1):25-33.  
< PMID: 22962438 >

---

The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

---

---

**Contact Information:**

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)