# TECHNICAL DATA SHEET

# CyFlow™ CD36 APC

# Anti-Hu; Clone TR9

**REF CQ855808**

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**For Research Use Only.**

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

## Specifications

| | |
|---|---|
| **Antigen** | CD36 |
| **Alternative Names** | GPIV, GP3B |
| **Clone** | TR9 |
| **Clonality** | monoclonal |
| **Format** | APC |
| **Host / Isotype** | Mouse / IgG1 |
| **Species Reactivity** | Human |
| **Negative Species Reactivity** | — |
| **Quantity** | 100 tests |
| **Immunogen** | Platelets |

## Specificity

The mouse monoclonal antibody TR9 recognizes CD36 antigen, a 85 kDa integral membrane glycoprotein expressed on platelets, macrophages, endothelial cells, early erythroid cells and megakaryocytes. The antibody TR9 cross-blocks binding of FITC-labeled standard antibody OKM5. Anti-CD36 antibodies inhibit adhesive functions (e.g. adherence of infected erythrocytes to target cells).

## Application

The reagent is designed for flow cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

## Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.09% (w/v) sodium azide and 0.2% (w/v) BSA.

## Storage and Stability

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

## Background Information

CD36 (FAT; fatty acid translocase) is an 85-113 kDa ditopic glycosylated protein that belongs to the class B family of scavenger receptors. CD36 is expressed by most resting marginal zone B cells but not by follicular and B1 B cells, and it is rapidly induced on Follicular B cells in vitro upon TLR and CD40 stimulation. CD36 does not affect the development of B cells, but modulates both primary and secondary antibody response. Similarly to glucose transporter GLUT4, CD36 is translocated from intracellular pools to the plasma membrane following cell stimulation by insulin. In mouse, CD36 is responsible for gustatory perception of long-chain fatty acids.

## Warnings

**Non-Hazardous Statement:** This is not considered hazardous by the criteria in 29 CFR 1910.1200 or the General Classification guideline for preparations of the EU.

**Safety Data Sheet Statement:** Important information regarding the safe handling, transport, and disposal of this product is contained in the Safety Data Sheet (SDS). SDS are available at http://www.sysmex-partec.com/services, or at https://us.sysmex-flowcytometry.com/ (U.S. customers only).

## References


- van Oort MM, van Doorn JM, Bonen A, Glatz JF, van der Horst DJ, Rodenburg KW, Luiken JJ: Insulin-induced translocation of CD36 to the plasma membrane is reversible and shows similarity to that of GLUT4. Biochim Biophys Acta. 2008 Jan-Feb; 1781(1-2):61-71. < PMID: 18167317 >
- Won WJ, Bachmann MF, Kearney JF: CD36 Is Differentially Expressed on B Cell Subsets during Development and in Responses to Antigen. J Immunol. 2008 Jan 1; 180(1):230-7. < PMID: 18097024 >
- Gaillard D, Laugerette F, Darcel N, El-Yassimi A, Passilly-Degrace P, Hichami A, Akhtar Khan N, Montmayeur JP, Besnard P: The gustatory pathway is involved in CD36-mediated orosensory perception of long-chain fatty acids in the mouse. FASEB J. 2008 May; 22(5):145-68. < PMID: 18162488 >

## Symbols

| | | | |
|---|---|---|---|
|  | Reference number |  | Contains sufficient for <n> tests |
|  | For research use only |  | Temperature limit |
|  | Batch code |  | Keep away from sunlight |
|  | Manufacturer |  | Consult accompanying documents |
|  | Use-by date |  | Unique device identifier |