

# Anti-Human CD36 (CLB-IVC7)



FITC	36F2-100T	100 test
PerCP-Cyanine 5.5	36PP5.52-100T	100 test
CF-Blue	36CFB2-100T	100 test



## 1. PRODUCT DESCRIPTION

- **Clone:** CLB-IVC7;
- **Isotype:** IgG1;
- **Tested application:** flow cytometry;
- **Immunogen:** The CD36 antibody, clone CLB-IVC7, is derived from the hybridization of Sp2/O mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with human monocytes;
- **Species reactivity:** Human;
- **Storage instruction:** store in the dark at 2-8 °C;
- **Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN<sub>3</sub>);
- **Recommended usage:** Immunostep's CD36, clone CLB-IVC7, is a monoclonal antibody intended for the identification and enumeration of platelets, macrophages, endothelial cells, early erythroid cells and megakaryocytes using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10<sup>6</sup> cells;
- **Presentation:** liquid;
- **Source:** Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
- **Purification:** Affinity chromatography;
- **Other names:** GPIV, GP4, GP3B, thrombospondin receptor, PASIV, FAT, and SCARB3;
- **Gene ID:** 948;
- **Molecular weight:** 88 kDa.

## 2. ANTIGEN DETAILS

**Large description:** CD36 is a transmembrane, highly glycosylated, glycoprotein expressed by monocytes, macrophages, platelets, microvascular endothelial cells, early erythroid cells and megakaryocytes and adipose tissues and weak with B cells. Detection of CD36 on human blood T cells is spurious, due mainly to interaction with contaminating platelets which express CD36 robustly<sup>5</sup>.

Platelet glycoprotein IV (GP IV)(GPIIb) (CD36 antigen) is also called GPIV, OIKM5-antigen or PASIV. CD36 recognises oxidized low density lipoprotein, long chain fatty acids, anionic phospholipids, collagen types I, IV and V, thrombospondin (TSP) and Plasmodium falciparum infected erythrocytes. Binds long chain fatty acids and may function in the transport and/or as a regulator of fatty acid transport.<sup>(1-4)</sup>

## 3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

## 4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

Please, refer to [www.immunostep.com](http://www.immunostep.com) technical support for more information.

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## 5. REFERENCES

1. Alessio M, Ghigo D, Garbarino G, Geuna M, Malavasi F. Analysis of the human CD36 leucocyte differentiation antigen by means of the monoclonal antibody NL07. Cell Immunol1991 Oct 15;137(2):487-500.
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3. Alessio M, Greco NJ, Primo L, Ghigo D, Bosia A, Tandon NN, et al. Platelet activation and inhibition of malarial cytoadherence by the anti-CD36 IgM monoclonal antibody NL07. Blood1993 Dec 15;82(12):3637-47.
4. Guarin P, Ulliers D, Thorne RF, Alessio M. Methionine I56 in the immunodominant domain of CD36 contributes to define the epitope recognized by the NL07 MoAb. Mol Cell Biochem2000 Nov;214(1-2):89-95.
5. Zamora C, Cantó E, Nieto JC, Ortiz MA, Diaz-Torné C, Diaz-Lopez C, Llobet JM, Juarez C, Vidal S. Functional consequences of platelet binding to T lymphocytes in inflammation. J Leukoc Biol. 2013 Sep;94(3):521-9. doi: 10.1189/jlb.0213074. Epub 2013 Jun 25. PMID: 23801652.

## 6. EXPLANATION OF SYMBOLS



Fluorochrome



Product reference



Content for <n> analysis



Regulatory Status



Research Use Only



Manufacturer

## 7. MANUFACTURED BY:

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