

# Anti-Human CD49b (TEA1/41)



FITC	49BF-100T	100 test
PE	49BPE-100T	100 test
APC	49BA-100T	100 test

**RUO**

## 1. PRODUCT DESCRIPTION

- **Clone:** TEA1/41;
- **Isotype:** IgG1;
- **Tested application:** flow cytometry;
- **Immunogen:** The anti-CD49b monoclonal antibody derives from TNF activated HUVEC cells;
- **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 CD49b, clone TEA1/41 is a monoclonal antibody intended for the identification and enumeration of Integrin alpha-2 protein 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:** Integrin alpha-2, CD49 antigen-like family member B, Collagen receptor, Platelet membrane glycoprotein Ia, GPIa, VLA-2 subunit alpha, BR, VLAA2;
- **Gene ID:** 3673;
- **Molecular weight:** 170 kDa.

## 2. ANTIGEN DETAILS

**Large description:** The monoclonal antibody is directed against the CD49b-antigen (GPIa or VLA-2 alpha-chain), which can form distinct complexes with either the CD29-antigen (GPIIa or VLA beta-chain), resulting in the VLA-2 (alpha-2 beta-1) complex, which is expressed on human platelets. The monoclonal antibody reacts with platelets, long-term cultivated T lymphocytes and activated T lymphocytes. In immunohistology the monoclonal antibody reacts with thymocytes, epithelial cells of a variety of tissues, peripheral nerves, fibroblasts, osteoclasts, glomerular mesangium and most non-haemopoietic adherent cell lines.<sup>(1-3)</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.

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

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## 5. REFERENCES

1. Mazurov AV, Vinogradov DV, Kabaeva NV, Antonova GN, Romanov YA, Vlasik TN, et al. A monoclonal antibody, VM64, reacts with a 130 kDa glycoprotein common to platelets and endothelial cells: heterogeneity in antibody binding to human aortic endothelial cells. *Thromb Haemost*1991 Oct 1;66(4):494-9.
2. Yoshino N, Ami Y, Terao K, Tashiro F, Honda M. Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp Anim*2000 Apr;49(2):97-110.
3. Ciarlet M, Crawford SE, Cheng E, Blutt SE, Rice DA, Bergelson JM, et al. VLA-2 (alpha2beta1) integrin promotes rotavirus entry into cells but is not necessary for rotavirus attachment. *J Virol*2002 Feb;76(3):1109-23.

## 6. EXPLANATION OF SYMBOLS

	Fluorochrome
	Product reference
	Content for <n> analysis
	Regulatory Status
	Research Use Only
	Manufacturer

## 7. MANUFACTURED BY: IMMUNOSTEP S.L.



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