

# Anti-Human CD55 (JS11)



FITC



55F-100T



100 test



20 µL/test



RUO

## 1. PRODUCT DESCRIPTION

**Clone:** JS11;  
**Isotype:** IgG1;  
**Tested application:** flow cytometry;  
**Immunogen:** The anti-CD55 monoclonal antibody derives from Human Peripheral Blood Mononuclear Cells and Tonsil 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 CD55, clone JS11 is a monoclonal antibody intended for the identification and enumeration of complement decay-accelerating factor protein expressed on hematopoietic cells including erythrocytes and many non-hematopoietic cells using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using I 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:** Complement decay-accelerating factor, DAF;  
**Gene ID:** I604;  
**Molecular weight:** 41,4 kDa.

## 2. ANTIGEN DETAILS

**Large description:** CD55 clone JS11 reacts with DAF protein a glycosylphosphatidylinositol (GPI)-anchored single chain glycoprotein also known as decay-accelerating factor.

It is expressed on hematopoietic cells including erythrocytes and many non-hematopoietic cells. This protein recognizes C4b and C3b fragments that condense with cell-surface hydroxyl or amino groups when nascent C4b and C3b are locally generated during C4 and C3 activation. Interaction of DAF with cell-associated C4b and C3b polypeptides interferes with their ability to catalyze the conversion of C2 and factor B to enzymatically active C2a and Bb and thereby prevents the formation of C4b2a and C3bBb, the amplification convertases of the complement cascade. CD55 has been reported to reduce the efficiency of NK cell lysis and induce signal transduction in T cells. CD55 has also been shown to interact with CD97 and bind to Coxsackie and Echovirus.<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

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


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## 5. REFERENCES

- Nowicki B, Nowicki S. DAF as a therapeutic target for steroid hormones: implications for host-pathogen interactions. *Adv Exp Med Biol*;735:83-96.
- Caras IW, Davitz MA, Rhee L, Weddell G, Martin DW, Jr., Nussenzweig V. Cloning of decay-accelerating factor suggests novel use of splicing to generate two proteins. *Nature*1987 Feb 5-11;325(6104):545-9.
- Osuka F, Endo Y, Higuchi M, Suzuki H, Shio Y, Fujii K, et al. Molecular cloning and characterization of novel splicing variants of human decay-accelerating factor. *Genomics*2006 Sep;88(3):316-22.

## 6. EXPLANATION OF SYMBOLS

	Form
	Catalog reference
	Contains sufficient for <n> test
	Quantity per test
	Regulatory Status
	Research Use Only
	Manufacturer

## 7. MANUFACTURED BY:

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