

# Anti-Human IgG3 (SAG3)



REF



[A]



FITC IGG3F-25T 25 test 1 µL/test 0,01 mg/ml

RUO

## 1. PRODUCT DESCRIPTION

**Clone:** SAG3;

**Isotype:** Mouse IgG1, k;

**Tested application:** flow cytometry (Quality tested), ELISA, WB and Multiplex assays;

**Immunogen:** Human IgG3 myeloma protein;

**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 anti-human IgG3, clone SAG3, is a monoclonal antibody intended for the identification of cells expressing IgG3 protein in peripheral blood using a compatible flow cytometer. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10<sup>6</sup> cells or 100 µl of sample. Anti-IgG3 should be used with wash steps before reagent addition or with ficoll gradient separation to remove Immunoglobulins from serum;

**Presentation:** liquid;

**Source:** Supernatant proceeding from an in vitro cell culture of a cell hybridoma;

**Purification:** Affinity chromatography;

**Other names:** IGHG3;

**Gene ID:** 3502.

## 2. ANTIGEN DETAILS

**Large description:** Immunoglobulin (Ig) G (IgG) is the predominant of five classes of Ig (IgG, IgA, IgM, IgE, and IgD). Igs differ in heavy chain structure and effector function. IgG1, the largest IgG subclass, represents ~60% of IgG and has a half-life of 21 days.

In normal adults, IgG3 represents ~4% of serum IgG. IgG3 activates complement more readily than other IgG subclasses, has high affinity for Fc receptors on phagocytes (FcγR), crosses the placenta less readily than IgG1 and IgG4 but more so than IgG2, and has an overall half-life of ~7 days. Some adults with frequent or severe respiratory tract infection have subnormal IgG3 (<2 SD below respective means).<sup>(1-2)</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.

## 5. REFERENCES

1. Barton JC, Barton JC, Bertoli LF, Acton RT. Factors associated with IgG levels in adults with IgG subclass deficiency. BMC Immunol. 2021 Aug 9;22(1):53. doi: 10.1186/s12865-021-00447-3. PMID: 34372773; PMCID: PMC8353875.
2. Oliva-Ariza G, Fuentes-Herrero B, Carbonell C, Lecrevisse Q, Pérez-Pons A, Torres-Valle A, Pozo J, Martín-Oterino JÁ, González-López Ó, López-Bernús A, Bernal-Ribes M, Belhassen-García M, Pérez-Escorza O, Pérez-Andrés M, Vazquez L, Hernández-Pérez G, García Palomo FJ, Leoz P, Costa-Alba P, Pérez-Losada E, Yeguas A, Santos Sánchez M, García-Blázquez M, Morán-Plata FJ, Damasceno D, Botafogo V, Muñoz-García N, Fluxa R, Contreras-Sanfeliciano T, Almeida J, Marcos M, Orfao A. High frequency of low-count monoclonal B-cell lymphocytosis in hospitalized COVID-19 patients. Blood. 2023 Jan 19;141(3):309-314. doi: 10.1182/blood.2022017439. PMID: 36399707.

## 6. EXPLANATION OF SYMBOLS



Form

REF

Catalog reference



Contains sufficient for > test



Quantity per test



Regulatory Status

RUO

Research Use Only

[A]

Concentration



Manufacturer

## 7. MANUFACTURED BY:

**IMMUNOSTEP S.L.**

**Address:** Avda. Universidad de Coimbra, s/n

Cancer Research Center (C.I.C)

Campus de Unamuno

37007 Salamanca (Spain)

**Telf./fax:** (+34) 923 294 827

**E-mail:** [info@immunostep.com](mailto:info@immunostep.com)

[www.immunostep.com](http://www.immunostep.com)