







# Anti-Human IgG2 (SAG2)

				[A]	
FITC	IGG2F-25T	25 test	20 µL/test	0,05 mg/ml	
PE	IGG2P-25T	25 test	20 µL/test	0,05 mg/ml	

## 1. PRODUCT DESCRIPTION

**Clone:** SAG2;  
**Isotype:** Mouse IgG1, k;  
**Tested application:** flow cytometry (Quality tested), ELISA, WB and Multiplex assays;  
**Immunogen:** Human IgG2 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 IgG2, clone SAG2, is a monoclonal antibody intended for the identification of cells expressing IgG2 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-IgG2 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:** IGHG2;  
**Gene ID:** 3501.

## 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. Antibody responses to soluble protein and membrane antigens primarily induce IgG1, although polysaccharides and allergens also elicit IgG1 responses. In normal adults, IgG2 represents ~30% of serum IgG. IgG2 activates complement less readily than IgG1 and IgG3, has low affinity for Fc receptors on phagocytes (FcγR), crosses the placenta less freely than other IgG subclasses, and has a half-life of 21 days. IgG2 is the predominant antibody that responds to bacterial polysaccharide antigens. Some persons with frequent or severe respiratory tract infection have subnormal IgG2 (<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.








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## 5. REFERENCES

- 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.
- 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
	Catalog reference
	Contains sufficient for > test
	Quantity per test
	Regulatory Status
	Research Use Only
[A]	Concentration
	<u>Manufacturer</u>

## 7. MANUFACTURED BY:



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