



IgA1-FITC

Ref: CYT-IGA1F

For Research Use Only. Not for use in diagnostics procedures

REAGENT COMPOSITION

Purified monoclonal anti-IgA1 antibody (mAb) conjugated with fluorescein isothiocyanate (FITC), supplied in phosphate buffered saline with $\leq 0.09\%$ (m/v) sodium azide and BSA 1% (m/v).

Clone: SAA1

Isotype: Mouse IgG1

Amount per vial: sufficient volume for 25 tests

INTENDED USE AND PERFORMANCE

IgA1-FITC is designed for flow cytometry use as a direct immunofluorescence reagent in the identification and enumeration of IgA1 expressing cells. IgA1-FITC reacts with the Fc portion of the heavy chain of human IgA1.

In humans, 85–90% of IgA antibodies are found in the secretory form in the external secretions of the body, which include tears; saliva; mucous secretions of the gastrointestinal, urogenital, and respiratory tracts; breast milk; and prostatic fluid, among others. The remaining fraction of 10–15% of IgA antibodies is found in blood, produced by B cells in the lymph nodes, bone marrow, and spleen. Two subclasses of human serum IgA exist. IgA1 tends to be monomeric and is present at a fivefold higher concentration than IgA2. Soluble IgA2 tends to be present more often in polymeric forms ⁽¹⁾.

CYT-IGA1F should be used with Bulklysis™ (CYT-BL) buffer that allows you to stain a great number of cells and analyze low-frequency subsets, as IgA1+ memory B cells and plasma cells. If another lysing protocol is used, two pre-staining washing steps using PBS+1% (m/v) BSA + $\leq 0.09\%$ (m/v) sodium azide must be performed.

This reagent must be used by flow cytometry qualified personal.

STORAGE CONDITIONS

The reagent is stable until the expiration date shown on the label, when stored at 2–8° C. The reagent should not be frozen or exposed to direct light during storage or during incubation with cells. Keep the reagent vial in a dry place. Once opened, the vial must be stored in a vertical position to avoid any possible spillage.

WARNINGS, PRECAUTIONS AND LIMITATIONS

1. Reagents are not considered sterile.
2. Alteration in the appearance of the reagent, such as the precipitation or discoloration indicates instability or deterioration. In such cases, the reagent should not be used.
3. It contains 0.09% (m/v) sodium azide (CAS-No. 26628-22-8) as a preservative, but even so care should be taken to avoid microbial contamination of reagent or incorrect results may occur.

Indication(s) of danger:

H302 Harmful if swallowed

Safety advice:

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 If swallowed, call a poison center or doctor/physician if you feel unwell.

P301+P330 If swallowed, rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

4. All patient specimens and materials with which they come into contact are considered biohazards and should be handled as if capable of transmitting infection ⁽²⁾, and disposed according to the legal precautions established for this type of product. Also recommended is handling of the product with appropriate protective gloves and clothing, and its use by personnel sufficiently qualified for the procedures described. Avoid contact of samples with skin and mucous membranes. After contact with skin, wash immediately with plenty of water.
5. Use of the reagent with incubation times or temperatures different from those recommended may cause erroneous results. Any such changes must be validated by the user.
6. Do not use antibody beyond the expiration date on the label.
7. Any serious incident relating to the product must be reported to Cytognos S.L. as well as the competent professional authority of the Member State in which the user is established.

PREPARATION

This product is supplied ready to use.

PROCEDURE

Whole blood/bone marrow sample must be taken aseptically ^(3, 4) in a sterile tube for blood collection containing an appropriate anticoagulant (use of EDTA is recommended).

We strongly recommend that each researcher should titrate the reagent depending on the specific application/experiment.

Stain 5×10^6 leukocytes with the appropriate antibody cocktail for B cell subsets identification, including IgA1-FITC, and incubate for 30 min at room temperature.

Acquire at medium flow rate on a flow cytometer within the first hour of finishing the sample preparation.

REFERENCES

1. The Immune Response. Basic and Clinical Principles (2006). Tak W. Mak and Mary E. Saunders. Elsevier Academic Press.

2. Protection of Laboratory Workers from occupationally acquired infections. Second edition; approved guideline (2001). Villanova PA: National Committee for Clinical Laboratory Standards; Document M29-A2.
3. Procedures for the collection of diagnostic blood specimens by venipuncture- approved standard; Fifth edition (2003). Wayne PA: National Committee for Clinical Laboratory Standards; Document H3-A5.
4. Clinical applications of flow cytometry: Quality assurance and immunophenotyping of lymphocytes; approved guideline (1998). Wayne PA: National Committee for Clinical Laboratory Standards; Document H42-A.

WARRANTY

This product is warranted only to conform to the quantity and contents stated on the label. There are no warranties that extend beyond the description on the label of the product. Cytognos's sole liability is limited to either replacement of the product or refund of the purchase price.

EXPLANATION OF SYMBOLS

	Use by (YYYY-MM)
	Storage temperature limitation
	Keep out of sunlight
	Consult instructions for use
	For research use only
	Batch code
	Catalogue number
	Manufacturer

PRODUCED BY

CYTOGNOS SL

Polígono La Serna, Nave 9

37900 Santa Marta de Tormes

Salamanca (España)

Phone: + 34-923-125067

Fax: + 34-923-125128

Ordering information: admin@cytognos.com

Technical information: support@cytognos.com

www.cytognos.com