

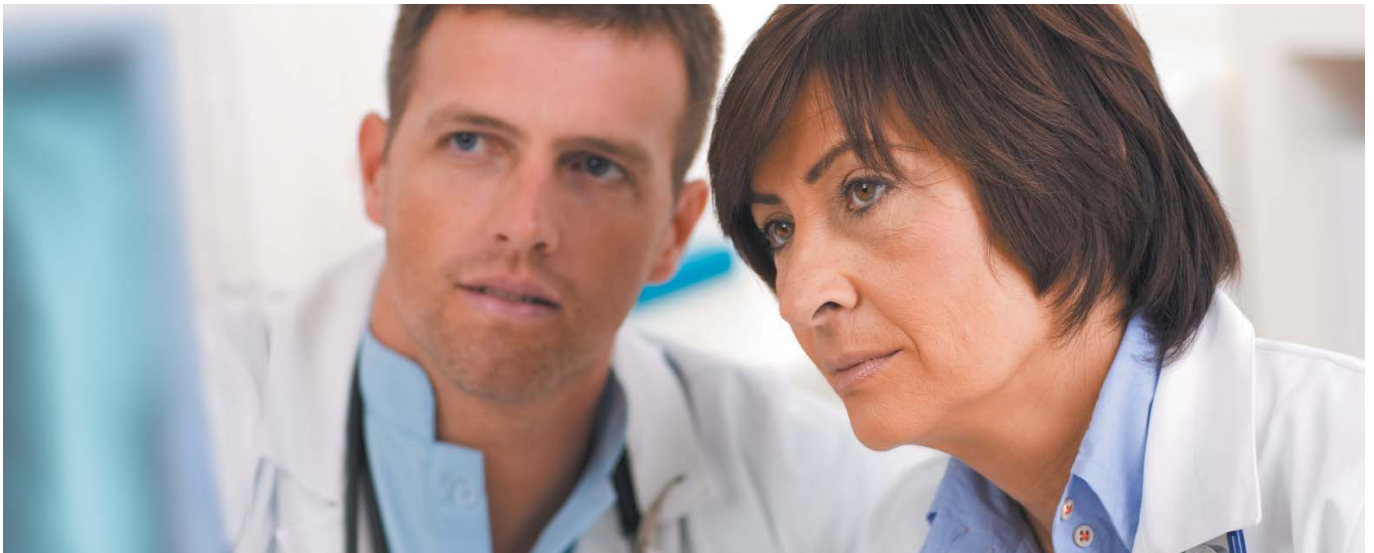


# Flow Cytometry

The different way to explore  
Thrombosis and Haemostasis

# The different way to explore

## At the Heart of Haemostasis



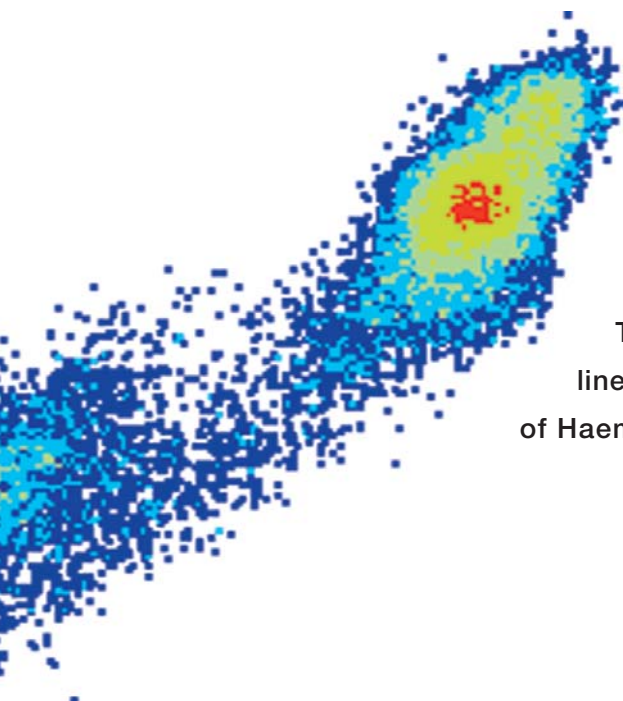
As a major player in coagulation analysis, Stago continues to innovate in order to offer new analysis in **plasmatic coagulation**. However plasma is only a part of the truth. **Blood cells** are known to modulate haemostasis and play a role in some pathophysiological situations: this component is **Cellular Haemostasis**.

15 years ago Stago decided to investigate this new aspect of haemostasis by acquiring **skills in flow-cytometry**. It's one of the reasons why Stago decided to **welcome BioCytex into the group**. This advanced R&D company

is in charge of developing **ready to use flow cytometric assays** for diagnosis applications related to haemostasis disorders.

Stago and its local representatives are pleased to inform you that these exclusive applications are now available in our catalog.

**The synergy of the Stago and BioCytex product lines ensures you the most comprehensive analysis of Haemostasis, our specialty.**



# Thrombosis and Haemostasis

## From Biotechnology to Diagnosis



Since the foundation of BioCytex in the early 90's in the close proximity of the University and Hospital Complex of La Timone / La Conception in Marseille (France), the need of **standardisation in flow cytometry** analysis still remains a topic of concern. Inter-laboratory reproducibility, day to day reproducibility and positivity and/or negativity threshold determination are a real need that can be addressed by the use of quantitative flow cytometry application kits. This is the expertise offered by BioCytex. We spent 7 years developing and tuning our **quantitative flow cytometry technology**.



After the success of our first generation of products with the QIFIKIT, BioCytex introduced Platelet kits, a comprehensive line of **no wash whole blood** flow cytometry kits for the **monitoring of antiplatelet drugs** as well as the diagnosis of **platelet disorders**. The same quantitative technology was applied to the development of kits for leukocyte and red cell receptor analysis. A major application is offered for the standardised diagnosis of Paroxysmal Nocturnal Hemoglobinuria (PNH). The product line resulting can be split as follows:

- **Thrombotic risk**
- **Bleeding disorders**
- **Drug monitoring**
- **Vascular biology**
- **Customisable kits**



# Drug monitoring

## Anti-Platelet Drugs

### PLT VASP/P2Y12

Cat. Nr. 00449 - CE Marking

**The reference for anti-P2Y12 drug monitoring**

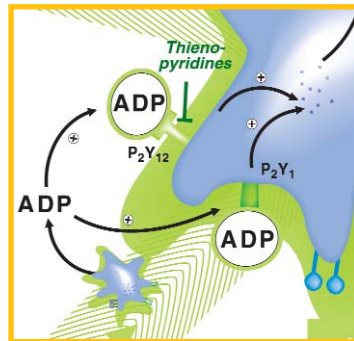
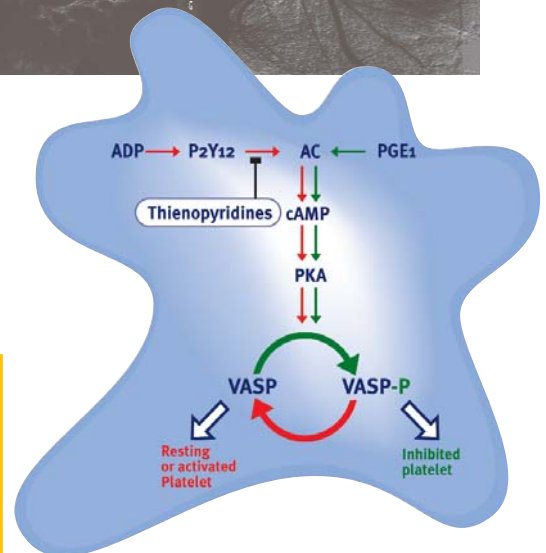
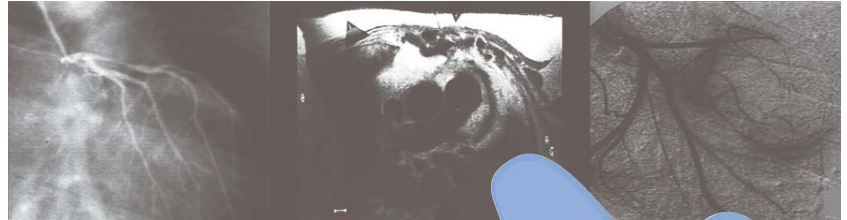
#### Intended use:

- Monitoring of specific platelet ADP receptor (P2Y12) antagonists (Ticlid®, Plavix®, Prasugrel®)
- Drug discovery and validation of new P2Y12 antagonists

#### Main benefits:

- The **most specific assay** for P2Y12 inhibition\*
- **Insensitive** to Aspirin®, Reopro® and Integrelin®
- **Quick result:** protocol < 30 minutes
- Easy sample handling: **stability up to 48 h** at room temperature.
- Standardised & reproducible analysis
- Only 30 µl citrated whole blood needed
- Kit for 10 tests

\*Scientific file available upon request



## Anti-Aggregant Drugs

### Platelet GpIIb/IIIa Occupancy

Cat. Nr. 00112 - For Research Use Only

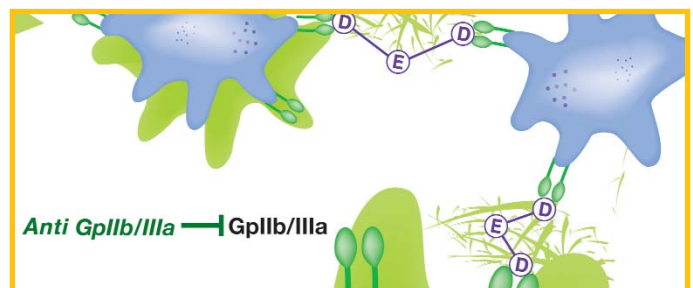
**Kit for pharmacological evaluation of anti-aggregant drugs**

#### Intended use:

- Measurement of GpIIb/IIIa occupancy by GpIIb/IIIa antagonists (Reopro®, Integrelin®, Aggrastat®)
- Pharmacological and research studies related to new GpIIb/IIIa antagonists

#### Main benefits:

- **One principle convenient** for all anti-aggregant drugs: two antibodies (one sensitive to the presence of GpIIb/IIIa antagonist and one insensitive to the antagonist)
- Standardised & reproducible analysis
- Only 50 µl citrated whole blood needed
- Kit for 10 tests



# Thrombotic risk

## Haematologic disorders and Thrombosis

### Cellquant PNH and Redquant PNH

Cat. Nr. 01000 - CE Marking

Cat. Nr. 01003 - CE Marking

#### The diagnosis of Paroxysmal Nocturnal Haemoglobinuria (PNH)

##### Intended use:

Analysis of **CD55** and **CD59** antigens on **granulocytes** (Cellquant PNH) and **red blood cells** (Redquant PNH).

##### Main benefits:

- Standardised & reproducible analysis
  - Use of pre-calibrated beads
- **Quick result:** protocol < 45 minutes
- **Ready-to-use**
- Cut-off value **clinically validated** (3%)\*
- **Whole blood = for a better practicability**
- Kits for 12 tests

\*Scientific file available upon request

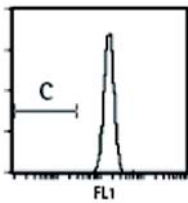
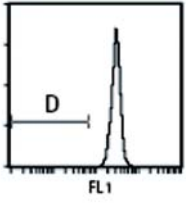
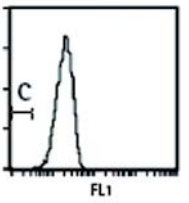
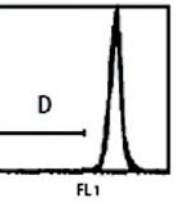
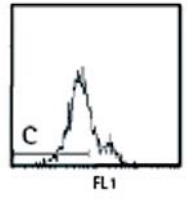
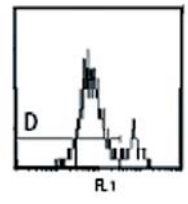
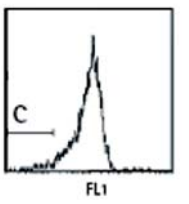
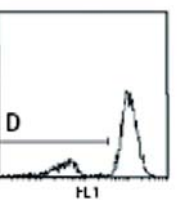
##### Test interpretation

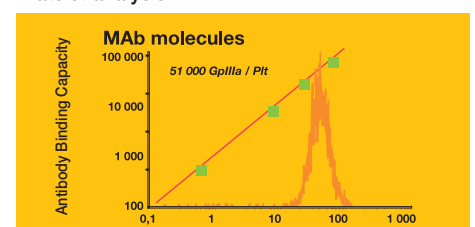
Nb of positive parameters	Cellquant PNH		Redquant PNH		Diagnosis
	CD55	CD59	CD55	CD59	
4					PNH
3					PNH
3					PNH
3					PNH
3					PNH
3					PNH
2					PNH
2					PNH
2					No PNH**
2					No PNH**
2					No PNH**
2					No PNH**
2					No PNH**
1					No PNH**
1					No PNH**
1					No PNH**
1					No PNH**
0					Normal

■ > 3%  
■ < 3%

\*\*In these cases, it is recommended to perform a follow-up test during the course of the disease for confirmation.

Example of one normal sample and one PNH sample detected with Cellquant PNH and Redquant PNH

	Cellquant PNH CD55	Cellquant PNH CD59	Redquant PNH CD55	Redquant PNH CD59
Normal Sample	< 3%	< 3%	< 3%	< 3%
				
PNH Sample 1	> 3%	> 3%	> 3%	> 3%
				



# Vascular biology

## Microparticles\*

### Megamix

Cat. Nr. 00420 - For Research Use Only

*The standardisation tool to analyse Microparticles (MP) by flow cytometry*

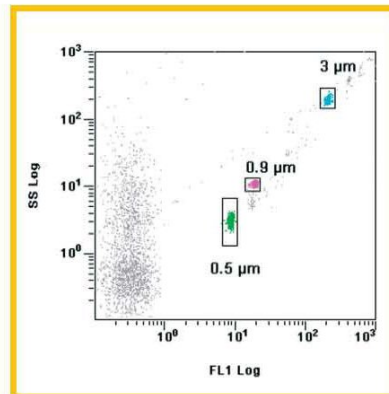
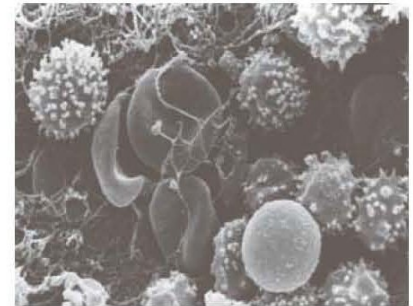
#### Intended use:

- Check **intrinsic performances** for MP analysis
- **Set up your flow cytometer** to analyse MP
- QC for day-to-day Cytometer **performances to analyse MP**
- **QC** for inter-instrument and inter-lab reproducibility

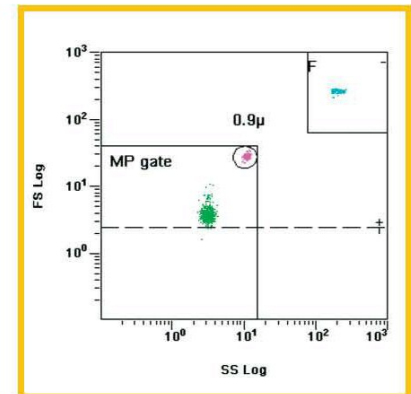
#### Main benefits:

- Mix of **adequate** fluorescent beads
- Help to set-up a 0.5 to 1.0  $\mu\text{m}$  **standard MP gate**
- Standardised & reproducible analysis
- Kit for 50 tests

\*Scientific file available upon request



Bead gating



0.5-1  $\mu\text{m}$  standard MP gate set-up

# Flow Cytometry Line

## Ready-to-use kits

Product	Thrombosis risk	Bleeding disorders	Drug Monitoring	Vascular biology	Customisable kits	Cat. Nr.	Packaging	CE
PLT VASP/P2Y12	X	X	X			00449	10 tests	X
Platelet GpIIb/IIIa Occupancy	X		X			00112	10 tests	
Cellquant PNH	X					01000	12 tests	X
Redquant PNH	X					01003	12 tests	X
PLT GP/Receptors		X				00111	5 tests	X
Platelet GP Screen		X				00418	10 tests	
Platelet PAIg		X				00452	10 tests	
PLT HPA-1		X				00419	10 tests	X
Megamix				X		00420	50 tests	
Cellquant FF-CD146				X		01002	12 tests	
Platelet Calibrator					X	00457	50 tests	
Cellquant Calibrator					X	01001	50 tests	

## Available monoclonal antibodies

Specificity	Purified* (0.1 mg)	FITC (100 tests)	PE (100 tests)	Biotin (100 tests)
Negative isotypic control IgG1	X	X	X	
Negative isotypic control IgG2a	X	X	X	
Negative isotypic control IgG2b	X	X	X	
Bound Fibrinogen		X		
CD32	X			
CD36	X	X	X	
CD41	X	X	X	
CD42b	X	X	X	
CD61	X	X	X	
CD62P	X	X	X	
CD146 (endothelial cells)	X	X	X	X

\* Can be used with Platelet Calibrator

Manufactured by



Company of  
Stago Group

For further information, please contact:



At the Heart of Haemostasis

**Diagnostica Stago S.A.S.**  
 RCS Nanterre B305 151 409  
 9, rue des Frères Chausson  
 92600 Asnières sur Seine (France)  
 Ph. +33 (0)1 46 88 20 20  
 Fax: +33 (0)1 47 91 08 91  
[stago@stago.fr](mailto:stago@stago.fr)  
[www.stago.fr](http://www.stago.fr)