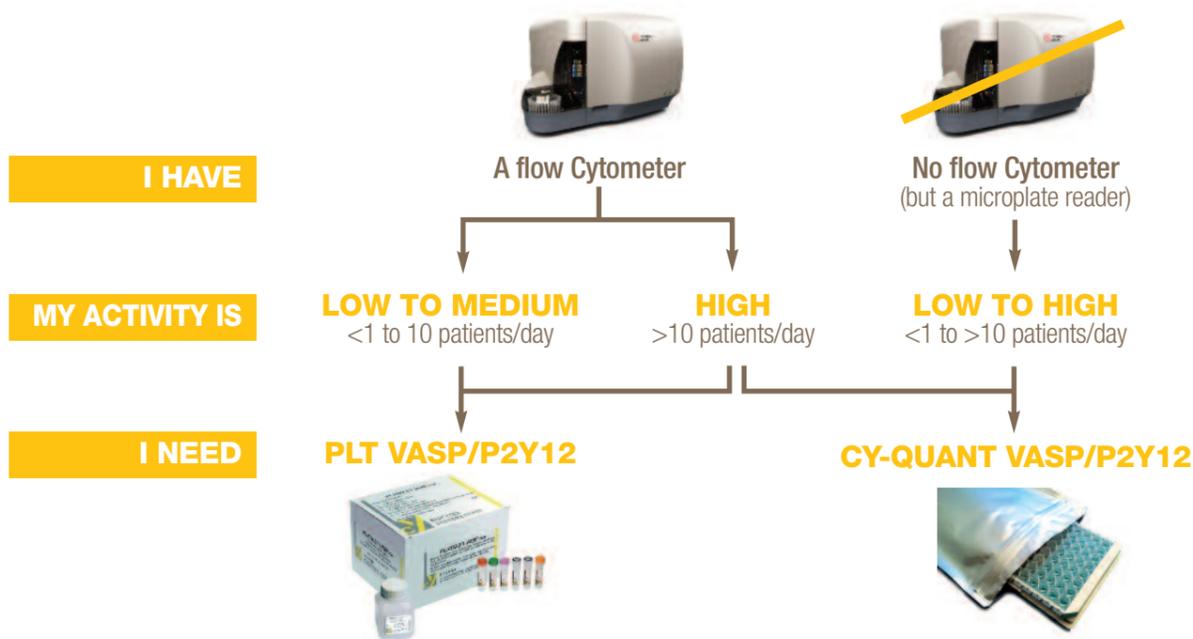


VASP Line

A solution for your every need

VASP Line



“A tailored clopidogrel loading dose according to platelet reactivity monitoring decreases the rate of early stent thrombosis after PCI without increasing bleeding”

BONELLO L. et al.; Am J Cardiol. 2009; 103:5-10

“This assay has demonstrated its high sensitivity and specificity for clopidogrel treatment [...] one advantage of this test is the stability of the blood samples”

ALEIL B. et al; Thromb Haemost. 2005; 94:886-7

“Our data provide evidence that the PLT VASP/P2Y12 assay [...] appeared to be specific most towards the effects of clopidogrel and, thus, might be the most useful test for the assessment of clopidogrel action among the evaluated methods”

MUELLER T. et al.; Thromb Research. 2007; 121:249-258

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Manufactured by



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Discover our complete solution for anti-P2Y12 drugs monitoring

For further information, please contact:

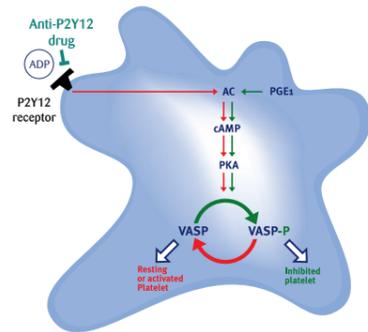


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Why choose **VASP** for anti-P2Y12 drugs monitoring?

Benefits of VASP as a biomarker



ADP: Adenosine Diphosphate
P2Y12: ADP receptor
AC: Adenylate Cyclase
PGE1: Prostaglandin E1
cAMP: cyclic Adenosine MonoPhosphate
PKA: Phosphokinase A
VASP: Vasodilator Stimulated Phosphoprotein
VASP-P: Phosphorylated VASP

A specific biomarker

- P2Y12 is an ADP receptor selectively inhibited by different antiplatelet drugs
- VASP (Vasodilator Stimulated Phosphoprotein) is an intracellular platelet protein that at basal state is unphosphorylated
- **VASP phosphorylation correlates with the P2Y12 receptor inhibition**, whereas its non-phosphorylation state correlates with the active form of P2Y12 receptor
- VASP is the **most specific biomarker** of P2Y12 inhibition:
 - With no interference from other ADP receptors such as P2Y1, as compared to aggregation based assays^{7,8}
 - Insensitive to Aspirin and anti-aggregant drugs (Reopro[®] and Integrelin[®])
 - Insensitive to WWF level and Platelet count, as compared to shear force assays
- Results in PRI (%): Platelet Reactivity Index, calculated in the presence of PGE1 alone or PGE1+ADP simultaneously.
- **The lower PRI is, the higher P2Y12 inhibition is.**

Easy to collect...

- Can be used with all **standard coagulation tubes**
- No need for expensive and uncommon anticoagulant
- Only **small volumes for fresh citrated whole blood** are needed (< 80 µL)

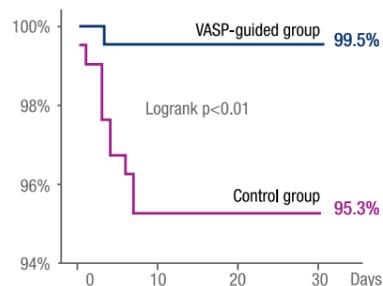
...Easy to process

- Easy sample handling: **stability up to 48h** at room temperature after blood collection (compared to < 4h for aggregation based assays)³
- Allows **sample transportation** and batch testing by reference laboratory³



Applications

- Why monitor P2Y12 antagonists?
 - **Up to 44%** of treated patients are considered **“resistant” to Clopidogrel**⁵
 - Insufficient platelet inhibition leads to **risks of adverse cardiovascular events** after percutaneous interventions (PCI)¹⁴
- **VASP is widely published as a clinical tool** for anti-P2Y12 monitoring^{1,2,6,10}
 - In a 2009 study from Bonello et al., the rate of early stent thrombosis was 4.7% in the control group vs 0.5% in the VASP guided group (p<0.01)¹¹
 - PubMed citations: >1000 publications
- **Largely used for drug discovery** and validation of new P2Y12 antagonists as well



Kaplan-Meier curve of freedom of definite stent thrombosis survival according to groups BONELLO L. et al. Am J. Cardiol. 2009

Assayed Drugs

Commercial Drugs

- Ticlid[®] (Ticlopidine)¹
- Plavix[®] (Clopidogrel)¹
- Efficent[®]/Effient[®] (Prasugrel)⁹
- Brilique[®] (Ticagrelor)¹²

Under Development Drugs

- Cangrelor⁴

Ticlid[®] and Plavix[®] are registered trademarks of Sanofi-Aventis
 Efficent[®]/Effient[®] is a registered trademark of Eli Lilly-Daiichi Sankyo
 Brilique[®] is a registered trademark of AstraZeneca

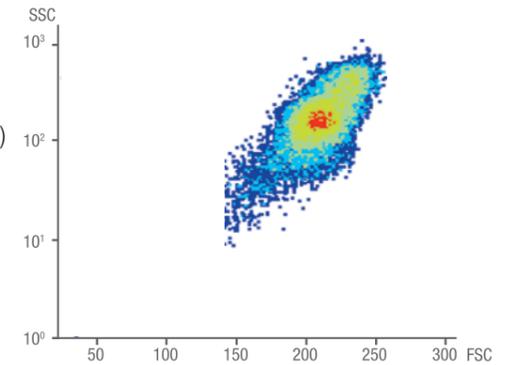
Take advantage of your **VASP** based-assays

The reference assays for specific platelet ADP receptor (P2Y12) antagonists

The “Gold Standard” on Flow Cytometer: **PLT VASP/P2Y12***

Cat. Nr. 00449 – CE Marked

- Specifically designed for P2Y12 antagonist monitoring
- Unique patented antibody against phosphorylated VASP (clone 16C2)
- **Only 30 µL citrated whole blood** needed
- **Sample stability up to 48h** at room temperature
- Kit size suitable for **low to medium activity** (from 1 to 10 tests per run)
- Quick result: protocol < 30 minutes
- Standardised & reproducible Flow Cytometer protocol
- Compatible with all types of Flow Cytometer

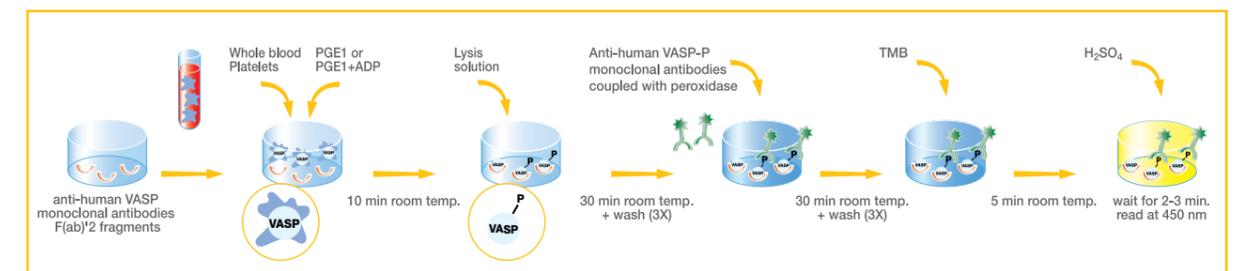


NEW

An innovative whole-blood ELISA: **CY-QUANT VASP/P2Y12***

Cat. Nr. 01076 – CE Marked

- A 96-well microplate based adaptation of PLT VASP/P2Y12 gold standard assay^{13,15}
- **Highly significant correlation** with the PLT VASP/P2Y12 assay (n=80; r=0.95; p<0.001)¹⁵
- **Only 80 µL citrated whole blood** needed
- **Sample stability up to 24h** at room temperature
- Kit size suitable for **low to high activity** (from 1 to 47 tests per run)
- Easy to use & compatible with all types of microplate reader (450 nm)



Strips divisible in unitary wells - Use only what you need



* Available depending upon the country