# Platelet Rich Plasma Protocol

**PRP preparation:**

1. Divide blood specimen into 2 parts
2. Centrifuge first part of blood specimen at 100 g for 8 minutes.
3. Transfer ¾ of the upper plasma layer to a new tube using a pipette with disposable tips (PRP specimen obtained).
4. Platelets concentration is calculated on hematological analyzer (platelets count)
5. Second part of blood specimen is used for PFP specimen preparation*
6. PFP is used for PRP dilution to get the desired platelets concentration.

Recommended platelet concentration (100-200) x $10^3$ $\mu L^{-1}$

For TD4D measurements (thrombin generation) use PLS kit, but do not add lipids from PLS vial.

In order to increase sensitivity to P2Y12 inhibitors ADP addition to PRP is used. ADP in concentration 100 uM is added immediately after plasma is mixed with regent 2. The incubation time was 3 min.

***PFP preparation (as described in User Manual):**

1. Centrifuge blood specimen tube at 1600 g for 15 minutes.
2. Transfer ¾ of the upper plasma layer to a new tube using a pipette with disposable tips.
3. Centrifuge the plasma specimen tube at 10000 g for 5 minutes.
4. Transfer 90% of the specimen liquid volume from the upper PFP layer to a new tube using a pipette with disposable tips.