



# Rheology Chip

Assessing whole blood Viscosity and Adhesion & microvascular flow conditions

## About

### ADHESION & VISCOSITY

The RheologyChip can be functionalized with adhesion proteins for simultaneous adhesion & viscosity measurements

### WHOLE BLOOD FLOW PROPERTIES

Combined effect of adhesion and RBC deformability can be measured via analyzing blood flow

### HYPOXIA

The RheologyChip can be integrated with our micro-gas exchanger (hypoxia assay) to measure whole blood viscosity in hypoxia

## Highlights

### TARGETED THERAPIES

Drugs that target whole blood rheology

### CURATIVE THERAPIES

NHLBI-supported multi- site study to assess RBC mediated microcapillary occlusions before and after a gene-based therapy for curative intent (1)

Based on publication: AJH, 2020

1. <https://curesickle.org>

## Typical Uses

- ✓ RESEARCH ASSAY
- ✓ PERSONALIZED MEDICINE
- ✓ DRUG DEVELOPMENT

## Single Cell Analysis

