

REPRODUCTION

Immunoassays



sHLA-G ELISA

Cat. No.: RD194070100R

RUO

Intended use

The RD194070100R sHLA-G ELISA is a sandwich enzyme immunoassay for the quantitative measurement of soluble forms of human leukocyte antigen-G (sHLA-G).

- The total assay time is about 20 hours
- The kit measures shedded HLA-G1 and HLA-G5 in plasma-EDTA, amniotic fluid, or cell culture supernatant
- Calibrator is human native protein
- Assay format is 96 wells
- Components of the kit are provided ready to use, concentrated or lyophilized

Clinical application

- Reproduction
- Immune Response, Infection and Inflammation
- Transplantation

Immunoassays

Test principle

In the BioVendor sHLA-G ELISA, calibrators and samples are incubated in microplate wells pre-coated with monoclonal anti-sHLA-G antibody. After 16-20 hours incubation and washing, monoclonal anti-human β 2-microglobulin antibody labelled with horseradish peroxidase (HRP) is added to the wells and incubated for 60 minutes with captured sHLA-G. Following another washing step, the remaining HRP conjugate is allowed to react with the substrate solution (TMB). The reaction is

stopped by addition of acidic solution and absorbance of the resulting yellow product is measured. The absorbance is proportional to the concentration of sHLA-G. A calibration curve is constructed by plotting absorbance values against concentrations of calibrators, and concentrations of unknown samples are determined using this calibration curve.

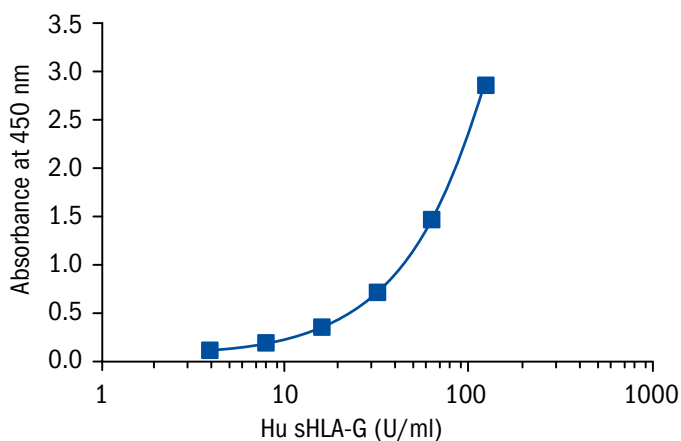
SHLA-G ELISA

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Assay format	Sandwich ELISA, HRP-labelled antibody, 96 wells/kit
Samples	Amniotic fluid, Cell culture medium, Plasma-EDTA
Standards	3.91 to 125 Units/ml
Limit of detection	Analytical Limit of Detection is calculated from the real sHLA-G values in wells and is 0.6 U/ml

Summary of protocol

- Reconstitute Master Calibrator and prepare set of calibrators
- Prepare samples
- Add 100 μ l Calibrators and samples
- Incubate at 2–8°C for 16-20 hour/no shaking
- Wash plate 5 times
- Add 100 μ l Conjugate Solution
- Incubate at RT for 1 hour/300 rpm
- Wash plate 5 times
- Add 100 μ l Substrate Solution
- Incubate at RT for 25 min/no shaking
- Add 100 μ l Stop Solution
- Read absorbance and calculate results



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