

## APOL1 kidney donor testing

NHS England has approved *APOL1* testing for potential live kidney donors to be included on the National Genomics Test Directory with immediate effect for patients that meet the testing criteria below.

The test will be included in the next publication of the Test Directory on 1<sup>st</sup> April 2024 but requests for testing can be ordered now. Clinical teams should send samples to their usual Genomics Laboratory Hub and the GLH will forward to the testing laboratory:

- South East GLH will provide testing for North Thames and East GLHs
- South West GLH will provide testing for Central & South, North West and North East and Yorkshire GLHs.

This testing has been included in Guidelines published by the British Transplantation Society <https://bts.org.uk/apol1-testing-in-potential-living-kidney-donors/>.

The target turn-around for this test is 42 days. Please contact the GLH directly for urgent test requests:

- South East GLH: [gst-tr.southeastglh@nhs.net](mailto:gst-tr.southeastglh@nhs.net)
- South West GLH: [SWGLHenquiries@nbt.nhs.uk](mailto:SWGLHenquiries@nbt.nhs.uk)

For any other queries please contact your Genomics Laboratory Hub.

### R446 APOL1 kidney donor testing

#### Testing Criteria

Testing for potential living donors, where ALL the following criteria are met:

1. The individual is being assessed for living kidney donation **AND**
2. Both the individual's parents have (or are likely to have) African, African-American, Caribbean or Brazilian heritage **AND**
3. Individual has undergone counselling and understands the indications and implications of testing and has provided consent.

#### Where in Pathway

Testing should be performed by transplant specialists after a potential donor has undergone basic biochemical, tissue type and antibody testing but before exposing the donor to ionising radiation e.g. CT renal angiogram.

#### Requesting Specialties

- Clinical genetics
- Nephrology

#### Specialist Service Group

- Renal

#### Associated Tests

Code	Name	Optimal Family Structure	Scope(s)	Target Type	Target Name	Method
R446.1	APOL1 kidney donor testing	Singleton	Targeted variant testing	Single gene	APOL1	Single gene sequencing < 10 amplicons