

## Liver Antibody Screen

Liver Antibody Screen	7880 Accredited to ISO 15189:2012
Synonyms	Mitochondrial, smooth muscle, LKM antibodies
Clinical Indication	This test detects IgG autoantibodies against smooth muscle, mitochondria and liver kidney microsomal antigen.
	Useful in patients with signs and symptoms liver disease e.g. fatigue, itching, abdominal pain, jaundice, oedema, etc.
	<ul><li>Autoimmune hepatitis</li><li>Primary Biliary Cholangitis</li></ul>
	It is essential to provide relevant clinical information.
Part of Profile / See Also	Liver specific antibody profile
Request Form	Combined Pathology manual Blood form or ICE request
Availability / Frequency of Analysis	Assay performed daily Monday to Friday
Turnaround Time	Tests are performed on the next routine working day after receipt of the sample.
Patient Preparation	None required
Sample Requirements	*Please note a separate sample is required when Immunology tests are
	requested in addition to Biochemistry tests*
Specimen Type	Serum
Volume	7 ml
Container	Yellow top (SST) tube
	Or Paediatric Yellow top (SST) tube
Reference Range & Units	Sera are screened at a dilution of $1/40$ (paediatric samples $1/10$ ).
	In general titres greater or equal to 1/80 are more likely to be significant.
Interferences	Heavily haemolysed or lipaemic samples are not suitable
Interpretation & Clinical Decision Value (if applicable)	Samples found to be anti-mitochondrial positive will be referred for M2 antibodies and other liver-specific antibodies. Samples found to be positive at 1/40 may be referred for other Liver Specific Antibodies if clinical details and pattern observed indicate testing.
	Below are listed the most common reported antibodies and their main clinical association:

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	Mitochondrial antibody - Main association is with Primary Biliary Cholangitis but can be seen in connective tissue disease and some other autoimmune diseases Smooth muscle antibody - autoimmune hepatitis, viral infections, SLE and RA. Liver Kidney Microsomal Antibody - Autoimmune and viral induced hepatitis. Please note: Low titre antibodies may be found in normal people and in a variety of diseases without an autoimmune basis, such as inflammation and cancer. The prevalence of these antibodies increases with age, but in general titres of greater that 1/80 are often significant disease indicators. Low or absent titres do not exclude disease in the presence of relevant clinical features.
	If strong staining on the gastric parietal cell is seen as an incidental finding, intrinsic factor antibodies will be added as this may indicate pernicious anaemia.
References	https://labtestsonline.org.uk
Test code	LIVS
Lab Handling	Aliquot and store at 4° <sup>c</sup> prior to testing and at -20° <sup>c</sup> or below for up to one month after receipt.