Patient Age/Gender: Unknown Unknown Printed: 26-Mar-20 08:09:40

Procedure	Result	Units	Ref Interval	Reporte Accession Collected Received Verifie
Soluble Liver Antigen Antibody, IgG	25.0 Н	U	[0.0-24.9]	20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:06:3
F-Actin (Smooth Muscle) Ab, IgG by ELISA	20 Н	Units	[0-19]	20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:06:3
Liver-Kid Microsome-1 Ab, IgG by ELISA	25.0 Н	U	[0.0-24.9]	20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:06:3
Mitochondrial (M2) Antibody, IgG	20.1 Н	Units	[0.0-20.0]	20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:06:3
Smooth Muscle Ab, IgG Titer	<1:20		[<1:20]	20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:09:3
Antinuclear Antibody (ANA), HEp-2, IgG	Detected *		[<1:80]	20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:06:3
ANA Pattern	Homogeneous *			20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:06:4
ANA Titer	1:80 *			20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:06:4
ANA Pattern 2	Speckled *			20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:06:4
ANA Titer 2	1:80 *			20-085-900022 25-Mar-20 25-Mar-20 25-Mar-
Cytoplasmic Pattern Titer	1:80 *			07:55:00 07:55:00 08:06:4 20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:06:4
ANA Interpretive Comment	See Note			20-085-900022 25-Mar-20 25-Mar-20 25-Mar- 07:55:00 07:55:00 08:06:3

Homogeneous Pattern Clinical associations: SLE, drug-induced SLE or JIA. Main autoantibodies: Anti-dsDNA, anti-histones or anti-chromatin (anti-nucleosome)

Speckled Pattern Clinical associations: SLE, SSc, SjS, DM, PM, MCTD, UCTD. May also be found in healthy individuals Main autoantibodies: Anti-SSA-52 (Ro52), anti-SSA-60 (Ro60), anti-SS-B/LA, anti-Topo-1 (anti-Scl-70), Smith, anti-U1-RNP, anti-U2-RNP, anti-Mi-2, anti-TIF1g, anti-Ku, anti-RNA polymerase, anti-DFS70/LEDGF-P75

Cytoplasmic Pattern Clinical associations: ARS, ILD, IM, SLE, SSc,, SjS,RA,MCTD, PBC, AIH, infectious, neurologic, and other inflammatory conditions. May also be found in healthy individuals Main autoantibodies: Anti-Ribosomal P, anti-tRNA synthetase (anti-Jo-1, anti-PL-7, anti-PL-12, anti-EJ, anti-OJ), anti-signal recognition particle (anti-SRP) or anti-mitochondria (anti-AMA)

Clinical Relevance Antisynthetase syndrome (ARS), chronic active hepatitis (CAH), inflammatory myopathies (IM) [dermatomyositis (DM), polymyositis (PM), necrotizing autoimmune myopathy (NAM)], interstitia

[dermatomyositis (DM), polymyositis (PM), necrotizing autoimmune myopathy (NAM)], interstitial lung disease (ILD), juvenile idiopathic arthritis (JIA), mixed connective tissue disease (MCTD), primary biliary cholangitis (PBC), rheumatoid arthritis (RA), systemic autoimmune rheumatic diseases (SARD), Sjogren syndrome (SjS), systemic lupus erythematosus (SLE), systemic sclerosis (SSc), undifferentiated connective tissue disease (UCTD).

25-Mar-20 07:55:00 Soluble Liver Antigen Antibody, IgG: INTERPRETIVE INFORMATION: Soluble Liver Antigen Antibody, IgG

0.0 - 20.0 U Negative 20.1 - 24.9 U Equivocal 25.0 U or greater Positive

The presence of SLA antibodies has almost 100% specificity for autoimmune hepatitis, although only 12-30% have these antibodies. Thus, a negative SLA IgG test does not rule out autoimmune hepatitis.

25-Mar-20 07:55:00 F-Actin (Smooth Muscle) Ab, IgG by ELISA: INTERPRETIVE INFORMATION: F-Actin (Smooth Muscle) Antibody, IgG by ELISA

* Abnormal, # = Corrected, C = Critical, f = Footnote, H = High, L = Low, t = Interpretive Text, @ = Reference Lab

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19 Units or less	Negative			
20 - 30 Units	Weak Positive-Suggest repeat			
	testing in two to three weeks			
	with fresh specimen.			
31 Units or greater	Positive-Suggestive of			
	autoimmune hepatitis type 1			
	or chronic active hepatitis.			

F-actin IgG antibodies have been shown to have increased sensitivity for autoimmune hepatitis (AIH) but lower specificity than smooth muscle antibodies (SMA). F-actin IgG antibodies can also be seen in SMA-negative disease controls (non-AIH), especially in patients with primary biliary cirrhosis and chronic hepatitis C infections. Some patients with AIH may be SMA-positive but negative for F-actin IgG. Consider testing for SMA by IFA if suspicion for AIH is strong.

25-Mar-20 07:55:00 Liver-Kid Microsome-1 Ab, IgG by ELISA: INTERPRETIVE INFORMATION: Liver-Kidney Microsome-1 Antibody, IgG by ELISA

0.0 - 20.0 U Negative 20.1 - 24.9 U Equivocal 25.0 U or Greater Positive

A positive result indicates the presence of IgG antibodies to recombinant human P450 2D6 and suggests the possibility of autoimmune hepatitis, type 2. A negative LKM-1 does not rule out the presence of autoimmune hepatitis, type 2.

25-Mar-20 07:55:00 Mitochondrial (M2) Antibody, IgG: REFERENCE INTERVAL: Mitochondrial (M2) Antibody, IgG

20.0 Units or less Negative 20.1 - 24.9 Units..... Equivocal 25.0 Units or greater..... Positive

Anti-mitochondrial antibodies (AMA) are thought to be present in 90-95% of patients with primary biliary cholangitis (PBC). However, the frequency of detected antibodies may be cohort or assay dependent, as lower sensitivities have been reported. Not all PBC patients are positive for AMA; some patients may be positive for SP100 and/or GP210 antibodies. A negative result does not rule out PBC.

25-Mar-20 07:55:00 Smooth Muscle Ab, IgG Titer: INTERPRETIVE INFORMATION: Smooth Muscle Ab, IgG Titer

* Abnormal, # = Corrected, **C** = Critical, **f** = Footnote, **H** = High, **L** = Low, **t** = Interpretive Text, @ = Reference Lab

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25-Mar-20 07:55:00 ANA Interpretive Comment: INTERPRETIVE INFORMATION: ANA Interpretive Comment

Presence of antinuclear antibodies (ANA) is a hallmark feature of systemic autoimmune rheumatic diseases (SARD). ANA lacks diagnostic specificity and is associated with a variety of diseases (cancers, autoimmune, infectious, and inflammatory conditions) and may also occur in healthy individuals in varying prevalence. The lack of diagnostic specificity requires confirmation of positive ANA by more-specific serologic tests. ANA (nuclear reactivity) positive patterns reported include centromere, homogeneous, nuclear dots, nucleolar, or speckled. Cytoplasmic pattern is reported as ANA negative. All patterns are reported to endpoint titers (1:2560). Reported patterns may help guide differential diagnosis, although they may not be specific for individual antibodies or diseases. Negative results do not necessarily rule out SARD.