



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003826 F 12/05/1988 34 Y

Referral Testing

Collected: 09/22/2023 11:28 Received: 09/22/2023 11:28

Test Name Result Flag Ref-Ranges Units Site

LGI1 Antibody Test

Interpretation See Note QCRL

NEGATIVE
This test did not detect abnormal levels of anti-LGI1 antibodies.

Technical Results See Note QCRL

Interpretive Result Table

INTERPRETIVE RESULT: Negative
TEST: anti-LGI1
TECHNICAL RESULT: No abnormal levels of antibodies detected

Comments See Note QCRL

Comments: This result does not exclude a diagnosis of an autoimmune etiology for the neurological symptoms associated with paraneoplastic disorder.

Recommendations: Health care providers, please contact the Athena Diagnostics Client Services Department at 1-800-394-4493 if you wish to speak with a clinical consultant regarding this test result.

Other testing available: Athena Diagnostics recommends additional testing, if not already performed. Athena Diagnostics currently offers the following antibody tests: anti-Hu, anti-Yo, anti-Zic4, anti-CV2, anti-Mal, anti-Ta, anti-Ri, anti-Recoverin, anti-VGCC, anti-VGKC, anti-Amphiphysin, anti-G-AChR, anti-NMDA, anti-GAD65, and anti-CASPR2. Please contact the Athena Diagnostics Client Services Department or visit AthenaDiagnostics.com for information regarding additional testing that may be appropriate based on this individual's clinical presentation.

Background information: Paraneoplastic neurological syndromes or disorders (PNS or PND) are rare immune-mediated disorders resulting from the damage to the nervous system due to remote effects of a tumor (1, 2). PND of the central nervous system may occur in association with either onconeural antibodies directed against intracellular antigens, or antibodies targeted against neuronal surface antigens (1, 3).

Clinical features of PND may include ataxia, limbic or brainstem

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

F32200007
WX0000003826

Ordered By: KAJAL SITWALA, MD, PhD
WX0000000002353

Kajal V. Sitwala, MD, PhD - Medical Director

Printed D&T: 09/22/23 11:30

Form: MM RL1
PAGE 1 OF 3



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|-----------|---|------|------------|-------|------|
| | encephalitis, sensory neuropathy, subacute cerebellar degeneration, dizziness, nystagmus, dysphagia, dysarthria, loss of muscle tone, loss of memory, vision problems, sleep disturbances, dementia, seizures, and/or sensory loss in the limbs (4). In approximately 60% of PND cases, neuropathic symptoms precede a tumor diagnosis (1). Some of the tumors related to PND include small cell lung cancer, ovarian teratoma and carcinoma, thymoma, lymphoma, breast cancer, and/or testicular cancer (2). PND may also include Lambert-Eaton myasthenic syndrome (LEMS), stiff person syndrome, encephalomyelitis, myasthenia gravis, neuromyotonia, and opsoclonus-myoclonus (4). However, these disorders can also occur in individuals without underlying cancer. Leucine-rich glioma-inactivated protein 1 (LGI1) is a secreted neuronal protein that connects presynaptic and postsynaptic protein complexes to finely tuned synaptic transmission (5). It is speculated that antibody-mediated disruption of LGI1 function causes increased excitability, which may result in seizures or encephalopathy. The predominant features of limbic encephalitis include severe short-term memory impairment with psychiatric symptoms such as personality change, depression, anxiety, hallucinations, confusion and faciobrachial tonic seizures (6, 7). The tumors associated with LGI1 positive antibody include thyroid carcinoma, small-cell lung carcinoma, kidney cell carcinoma, ovarian carcinoma and thymoma (8). Since neurological symptoms often precede the detection of an occult malignancy, patient monitoring is recommended, and a search for occult cancer should be considered. Isolated cases of Morvan's syndrome, neuromyotonia, epilepsy and other neurological symptoms were also identified in individuals positive for LGI1 antibodies (9). | | | | |

Methods See Note QCR

A cell-based assay (CBA) was used to detect antibodies by indirect immunofluorescence test (IIFT) on a recombinant cell line expressing the antigen.

Limitations of analysis: Cross-interfering antibodies may be present in samples and appear as borderline or low positive results. Specimen type may affect sensitivity and specificity of this assay. False positive or false negative results may occur rarely. All results should be interpreted in the context of clinical findings, relevant medical history, and other ancillary laboratory data.

References See Note QCR

- Darnell, RB, et al. (2006) Semin Oncol 33: 270-98. (PMID: 16769417)
- Titulaer, MJ, et al. (2011) Eur J Neurol 18: 19-e3. (PMID: 20880069)
- Zuliani, L, et al. (2012) J Neurol Neurosurg Psychiatry

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F322000007
WX0000003826
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Ordered By: KAJAL SITWALA, MD, PhD
WX0000000002353

Kajal V. Sitwala, MD, PhD - Medical Director
Form: MM RL1
PAGE 2 OF 3



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Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Contains a list of medical references.

This test was developed and its analytical performance characteristics have been determined by Athena Diagnostics. It has not been cleared or approved by the U.S. Food and Drug Administration. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

Laboratory oversight provided by Vivekananda Datta, M.D., Ph.D., CLIA license holder, Athena Diagnostics (CLIA# 22D0069726)

Testing performed at:
Athena Diagnostics 200 Forest Street Marlborough, MA 01752
Test Performed at:
Athena Diagnostics, Inc.
200 Forest Street, 2nd Floor
Marlborough, MA 01752 V Datta MD, PhD

QCRL: QUEST DIAGNOSTICS REFERENCE LAB CAPISTRANO 33608 Ortega Highway San Juan Capistrano CA 92675
Performing Site:

Reported Date: 2023.09.22 11:29 LG11

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED