

File Number : 2017AUT00037

Patient DOB : 03/02/2017

Patient Name : John Dow

Date : 22/08/2017

Patient ID : 200

51110 Campus Drive Suite 190, plymouth Meeting, PA, 19462
Phone: 610-441-9050; Fax: 610-537-5075 www.jliadneuro.com

Assay Notes

- Folate receptor (FR) blocking antibody is defined as an antibody that blocks the binding of folic acid to the folate receptor.
- Binding autoantibodies against the folate receptor recognize multiple epitopes on the folate receptor and can be blocking and binding antibodies (IgG only).
- As in the case of most autoimmune disorders, the presence of an autoantibody should be considered as possibly abnormal. Low titers of autoantibodies have been found in individuals who are otherwise healthy. Typically, lower CSF 5-MTHF levels have been associated with higher antibody titers but sometimes, low CSF 5-MTHF values have been observed in patients with low titers or no antibodies.
- The concentration of antibodies is known to fluctuate over time (and in response to changes in cow's milk intake) so repeating the test, if clinically warranted, has been recommended.
- The designation "low", "medium" or "high" is arbitrary and on the cumulative experience of performing the assays, not on its clinical relevance.

DISCLAIMER

At this time, the assays are provided as research tools only. They are not intended to diagnose any disease or form the basis for any clinical decisions, and are not approved by any regulatory body.

References:

Frye RE, Sequeira JM, Quadros EV, James SJ, rossignol DA. Cerebral folate receptor autoantibodies in autism spectrum disorder. Mol. Psychiatry. 2013 Mar; 18(3):369 - 81.

Ramaekers VT, Sequeira JM, Blau N, Quadros EV. A milk-free diet downregulates folate receptor autoimmunity in cerebral folate deficiency syndrome. Dev Med Child Neurol. 2008 May; 50(5):346-52.

Ramaekers VT, Blau N, Sequeira JM, Nassogne MC, Quadros EV. Folate receptor autoimmunity and cerebral folate deficiency in low-functioning autism with neurological deficits. Neuropediatrics. 2007 Dec; 38(6):276 - 81.

Rossignol DA, Frye RE: Folate receptor alpha autoimmunity and cerebral folate deficiency in autism spectrum disorders (REVIEW). Journal of Pediatric Biochemistry. 2012: 263–271.