

FRAT

Folate Receptor Autoantibodies Test- IgG



“Studies have shown that **~60–75% of children** with autism spectrum disorder test positive for folate receptor autoantibodies, highlighting a clinically actionable pathway for intervention.”

What is FRAT?

FRAT is a vital blood test that detects **folate receptor autoantibodies (FRAs)**, which can block the body's ability to transport **folate (Vitamin B9)** into the brain and cerebrospinal fluid even when folate levels are normal.

This is clinically significant because folate plays a crucial role in **brain development, cognitive and behavioral function**.

When these autoantibodies are present they can interfere with normal folate utilization, potentially leading to conditions such as **Cerebral Folate Deficiency Syndrome** and neurodevelopmental disorders in children.

Who Should Consider This Test?

Children with -

Autism spectrum disorder



Developmental or speech delays



Behavioral concerns



Why is FRAT Actionable?

- Helps identify patients who may require folinic acid (leucovorin) therapy.
- Enables personalised treatment strategies.
- Supports better developmental outcomes.

Technical specifications

Methodology: Sandwich ELISA

Variant Type: Folate Receptor Autoantibodies

Sensitivity and Specificity: 95%

Sample Type: Blood in Serum Separation tube

TAT: 2 Weeks



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+91 75691 32891

info@theonedna.com

502, Sonthalia Emerald, Somajiguda, Hyderabad-500082