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Title: Tracking single membrane targets of human autoantibodies using single nanoparticle imaging

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Research article**TITLE**

Tracking single membrane targets of human autoantibodies using single nanoparticle imaging

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HIGHLIGHTS

- An increasing number of neuropsychiatric diseases have been associated with the expression of human autoantibodies directed against neuronal receptors
- Circulating autoantibodies (immunoglobulins) purified from the serum can be coupled to fluorescent nanoparticles
- The surface diffusion signature of the autoantibodies' membrane target can be characterized in live neurons

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