Introduction
Muscarinic cholinergic receptors, or mACHRs, are acetylcholine receptors that form G protein-receptor complexes in the cell membranes of certain neurons and other cells. Autoantibodies against M3 AChR are significantly elevated in patients suffering from chronic fatigue syndrome (CFS) / myalgic encephalomyelitis (ME). Muscarinic acetylcholine receptor 3 (M3) autoantibodies are present in a subset of 20-30% of chronic fatigue syndrome patients. The CellTrend anti-muscarinic cholinergic receptor 3 (M3)-antibody EIA is designed for the determination of antibodies against the muscarinic cholinergic receptor 3 (M3) in serum.

Principle of the assay
The CellTrend muscarinic cholinergic receptor 3 (M3)-EIA is an antibody screening test. M3 receptor has been pre-coated onto a microtiter plate. During the first incubation the anti-muscarinic cholinergic receptor 3-antibodies of the samples are immobilised on the plate. The autoantibodies are detected with a POD labeled anti-human IgG antibody. In the following enzymatic substrate reaction the intensity of the colour correlates with the concentration and/ or avidity of anti-muscarinic cholinergic receptor 3-antibody.

Performance Characteristics
Standard curve:
5 standards between 2.5 U/ml and 40 U/ml

cut off (Löbel et al, Brain Behav Immun 2015):
positive (95% percentile): 10.0 Units/ml
at risk (90% percentile): 6.0 – 10.0 Units/ml

Sample materials:
Serum

Intraassay-Precision:
(n=10)
Sample 1 (8.2 U/ml): 5.9%

Interassay-Precision:
(n=10)
Sample 1 (12.9 U/ml): 10.1%

Assay Procedure
Incubation of samples/ standards/ controls 100 µl 2 hrs, 4°C
Wash
Incubation of detection antibody 100 µl 1 hr, room temperature
Wash
Substrate incubation 100 µl/well 30 min, room temperature
Add Stopp solution 100 µl/well
Read at 450nm

Order informations

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<th>Product</th>
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<td>EIA for Quantitative Determination of anti-M3-AB, 1x96 determin.</td>
<td>15300</td>
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