

NEW

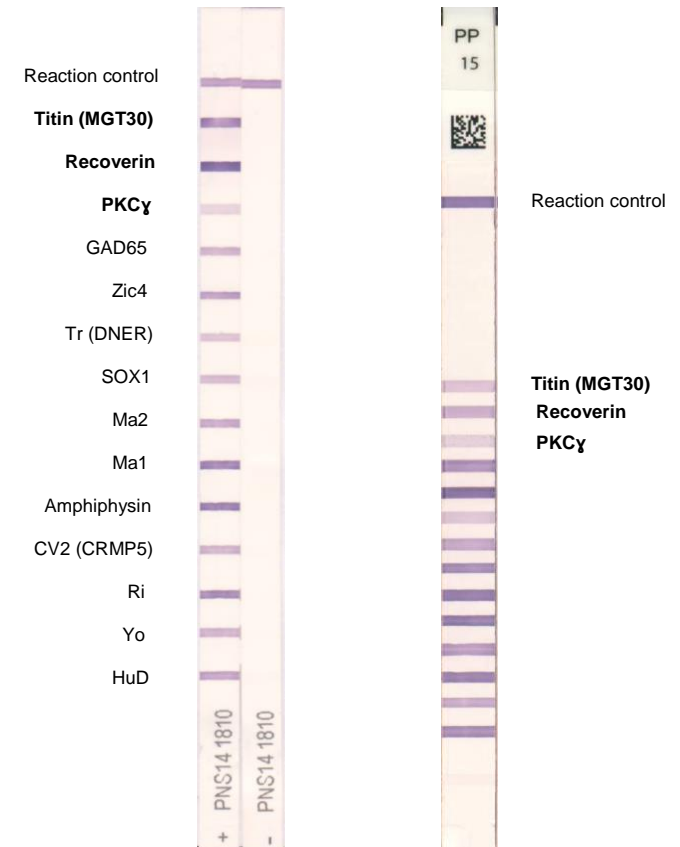


Oltmannsstrasse 5
D-79100 Freiburg
Telefon: +49 (0)761 40 74 88
Fax: +49 (0)761 40 74 77
E-Mail: info@ravo.de
Internet: www.ravo.de

References:

1. E.Lübke, A.Freiburg, G.O.Skeie, B.Kolmerer, S.Labeit, J.A.Aarli, N.E.Gilhus, R.Wollmann, M.Wussling, J.C.Rüegg and W.A.Linke. Striational autoantibodies in myasthenia gravis patients recognize I-band titin epitopes. *J Neuroimmunol*, 1998;81:98-108
2. A.S.Polans, D.Wittkowska, T.L.Haley, D.Amundson, L.Baizer and G.Adamus. Recoverin, a photoreceptor-specific calcium-binding protein, is expressed by the tumor of a patient with cancer-associated retinopathy. *Proc.Natl.Acad.Sci.*, 1995;92:9176-9180
3. G. Adamus. Autoantibody Targets and their Cancer Relationship in the Pathogenicity of Paraneoplastic Retinopathy. *Autoimmun Rev.*, 2009;8(5):410-41
4. R.Höftberger, G.G.Kovacs, L.Sabater, P.Nagy, G.Racz, R.Miquel, J.Dalmau and F.Graus. Protein kinase γ antibodies and paraneoplastic cerebellar degeneration. *J Neuroimmunol*, 2013;256:91-93
5. S.Jarius and B.Wildemann. 'Medusa head ataxia': the expanding spectrum of Purkinje cell antibodies in autoimmune cerebellar ataxia. Part 2: Anti-PKC-gamma, anti-GluR-delta2, anti-Ca/ARHGAP26 and anti VGCC. *Journal of Neuroinflammation*, 2015;12:167

RAVO PNS 14 Line Assay and PNS14 DIVER with Titin (MGT30), Recoverin and PKC γ



ravo PNS 14 Line Assay and PNS14 DIVER

The longtime established ravo PNS 11 Line Assay for the detection of the well characterized anti-neuronal autoantibodies has been complemented by the addition of three further antigens:

Titin: Autoantibodies to Titin, an intracellular protein of the striated muscle, are detected in 70 -90 % of patients with Myasthenia gravis with an underlying thymom.

The immune response is directed to a 30 kd (= MGT30 = myasthenia gravis/thymoma-specific 30-kd antigen) main immunogenic region (= MIR). Autoantibodies to Titin correlate with the severity of the disease (1).

Recoverin: Recoverin is a photoreceptor – specific calcium-binding protein with a molecular weight of ~ 23 kD. It has been identified as autoantigen in a degenerative disease of the retina called CAR (= Cancer Associated Retinopathy), a paraneoplastic syndrome, which leads to the degeneration of photoreceptors and hence to blindness. Usually the underlying tumor is a small cell lung cancer (SCLC) (2, 3).

PKC γ : Autoantibodies to Protein Kinase C gamma (PKC γ), an enzyme of ~ 80 kD have been detected in patients with paraneoplastic cerebellar degeneration (4,5).

Advantages of the new PNS 14 Line Assay and PNS14 DIVER:

- Detection of 14 important neurological autoantibodies on one strip using one serum dilution
- Fully automated BlueDIVER version

Order Form

Please complete and return by FAX to ravo Diagnostika:
+49 - 0761 – 40 74 77

Name /Institution:

Customer:

Address:

Phone/Fax:

Please tick a box:

- Yes, I would like to try the new PNS 14 Line Assay.
Please send an individual quotation for one package size of my choice.
- PNS 14-001 (8 determinations)
 - PNS 14-002 (16 determinations)
 - PNS 14-003 (24 determinations)
 - PNS14DIV-24 (24 determinations, fully automated)**



- I am interested in automatic reading (Blotrix B4C) of the PNS 14 Line Assay (manual version)

Date/Signature_____