

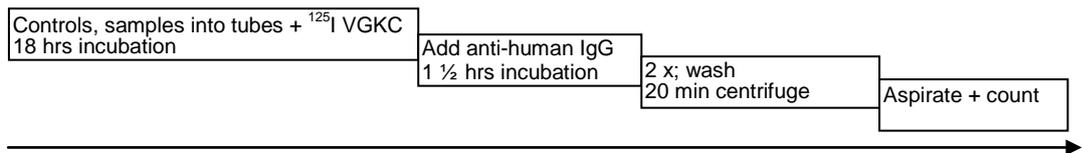
- Description:** Radioimmunoassay (RIA) kit for the determination of autoantibodies to voltage-gated potassium channels (VGKC) in serum
- Disease application:** Voltage-Gated Potassium Channelopathies and related neurological disorders such as acquired neuromyotonia (NMT), cramp-fasciculation syndrome (CFS), and disorders of the central nervous system including Morvan syndrome, epilepsy and encephalitis (LE).
- Test samples:** Sera can be used. Do not use lipaemic or haemolysed samples. Citrate, EDTA and heparin plasma samples may be used.
No interference was observed; haemoglobin <500 mg/dL, bilirubin <20 mg/dL and intralipid < 3,000 mg/dL.

Assay tubes: Polypropylene conical bottomed tubes, 4.5mL, 75 x 12 mm

Sample volume: 50µL per tube

Total assay time: Approx. 22 hours

Assay method:



Sensitivity: 90% n = 30 for patients with suspected voltage-gated potassium channelopathies and related neurological disorders

Specificity: 98% n = 100 for healthy blood donors

Calibrator range: N/A

Cut-off: Negative: <72 pmoles/L; Positive: ≥72 pmoles/L

Lower detection limit: 4.5 pmoles/L (mean + 2 standard deviations in assay of negative control; n=20)

Advantages: Easy assay format suitable for use in routine clinical laboratories, providing a specific and sensitive assay for VGKC Ab.

Features: Reliable and convenient method to measure specific VGKC Abs which are useful in the diagnosis and management of auto-immune Voltage-Gated Potassium Channelopathies and related neurological disorders.

Kit size: 25 tubes

Order code: VGK/25

Literature: I K Hart et al, *Ann Neurol* 1997 **41**: 238 - 246
Autoantibodies detected to expressed K⁺ channels are implicated in Neuromyotonia

A Vincent et al, *Brain* 2004 **127**: 701 - 712
Potassium channel antibody-associated encephalopathy: a potentially immunotherapy-responsive form of limbic encephalitis

K M Tan et al, *Neurology* 2008 **70**: 1883 - 1890
Clinical spectrum of voltage-gated potassium channel autoimmunity

This kit is intended for in-vitro use by professional persons only. The data quoted is for guidance only. Each laboratory should establish its own normal and pathological reference ranges for the assay and should include its own panel of control samples in the assay along with the controls provided as part of the kit.

RSR Limited

Diagnostics for Autoimmunity

Avenue Park Pentwyn, Cardiff, CF23 8HE United Kingdom
http://www.rsrltd.com E-mail: info@rsrltd.com

Tel: +44 (0) 29 2073 2076
Fax: +44 (0) 29 2073 2704

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