



Anti-Potassium channel autoantibodies - Overview

Table 1 Antigen specificity of known anti-potassium channel autoantibodies

Channel type	Indications - Diseases
Voltage gated potassium channels (VGKC)	
► Kv1.1	Neuromyotonia, Morvan syndrome
► Kv1.2	Neuromyotonia, Morvan syndrome
► Kv1.4	Myasthenia gravis
► Kv1.6	Neuromyotonia, Morvan syndrome
► Kv4.2 (auxiliary subunit DPPX)	Encephalitis, Hyperexcitability
► Kv7.1	Cardiomyopathies
► Kir2.1	?
► Kir2.6	?
► Kir4.1	Multiple sclerosis
Channel complexes	
constituted of the pore forming proteins: ► Kv1.1 ► Kv1.2 ► Kv1.6 ► and associated proteins, identified as antigen (see below) and probably further unknown antigens.	Neuromyotonia, Morvan syndrome, limbic encephalitis, paraneoplastic neuropathies
Channel associated proteins	
► CASPR2 ► Lg1 ► Tag1 / Contactin 2	Neuromyotonia, Morvan syndrome, limbic encephalitis, paraneoplastic neuropathies
Protein G activated channels	
► M2-mAcetylcholine receptor	Cardiomyopathies