



## Neuroimmunology

Antigen	Associated Disorder
Ganglioside (GM1) (anti- GM1; ELISA) IgG and IgM (combined)	<b>Guillain Barre Syndrome (IgG)</b> <b>Multifocal motor neuropathy (IgM)</b>
Ganglioside (GM1) (anti- GQ1b; ELISA) IgG and IgM (combined)	<b>Miller- Fisher Syndrome (IgG)</b> <b>Chronic Sensory Neuropathy (IgM)</b>
Glutamic acid decarboxylase (GAD) (anti GAD; RIA) IgG	High levels >300 U/ml in <b>Stiff-man syndrome</b> <b>Cerebellar ataxia</b> (usually with other autoimmune disorders) Low levels <100 U/ml in <b>Diabetes</b>
Myelin associated glycoprotein (MAG) (anti-MAG; ELISA) IgM	<b>Chronic sensory neuropathies</b>
<b>Markers for Paraneoplastic Neurological syndromes</b>	<b>Antigen:</b> most common presentation (most frequent associated tumour) <b>Hu:</b> Subacute sensory neuropathy/ encephalitis (SCLC) <b>Yo:</b> Cerebellar degeneration (breast, ovary) <b>Ri:</b> Opsoclonus/ Myoclonus and other (breast) <b>Ma2,</b> Limbic encephalitis and other syndromes (testicular and other cancers) <b>Amphiphysin:</b> Opsoclonus, ataxia (breast, SCLC) <b>Syndrome CV2:</b> Limbic encephalitis