

Transglutaminase 6 ELISA-Kit (IgA, IgG)

Autoantibodies in Gluten Ataxia Recognize A Novel Neuronal Transglutaminase (TG6)*

Gluten sensitivity typically presents as celiac disease, a chronic autoimmune-mediated small intestinal disorder. Neurological disorders occur with a frequency of up to 10% in these patients. However, neurological dysfunction can also be the sole presenting feature of gluten sensitivity. Development of autoimmunity directed towards different members of the transglutaminase protein family could offer an explanation for the diversity in manifestations of gluten sensitivity.

While the development of anti-transglutaminase 2 IgA is linked with gastrointestinal disease, an anti-transglutaminase 6 IgG and IgA response is prevalent in gluten ataxia, independent of intestinal involvement. Such antibodies are absent in ataxia of defined genetic origin or in healthy individuals. Inhibition studies showed that in those patients with ataxia and enteropathy, separate antibody populations react with the two different transglutaminase isoenzymes. Furthermore, post mortem analysis of brain tissue revealed cerebellar IgA deposits that contained transglutaminase 6.

Therefore antibodies against transglutaminase 6 identify a subgroup of patients with gluten sensitivity that may be at risk of developing neurological disease.

ELISA-Kits are exclusively available from Zedira

ID	Name	Quantity	Price
E003	human recombinant Transglutaminase 6 ELISA-Kit (IgA)	1 Kit	495€
E004	human recombinant Transglutaminase 6 ELISA-Kit (IgG)	1 Kit	495€

For further information please refer to our website www.zedira.com or contact us contact@zedira.com.

Zedira is a supplier for R&D-tools and diagnostic products in celiac disease and transglutaminase related research. We offer enzymes, substrates and assays, antigens and ELISA-Kits, antibodies and inhibitors.



Hadjivassiliou et al., Annals of Neurology 2008