

Allergy-immunology glossary

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Towards a clear designation of some of the terms used in allergology and immunology.

Tissue transglutaminase (tTG)	tTG is a calcium dependent enzyme which exerts several distinct physiological functions. It is distributed within the cell either in the extracellular matrix or the intracellular one depending on its function. tTG shows a high specificity for protein-bound glutamine and accordingly wheat gliadin is a preferred substrate as it contains glutamine residue. tTG has an immunomodulatory function by activating the transforming growth factor- β (TGF- β). Dysregulation of tTG activity, has resulted in diseases as chronic neurodegenerative disorders, such as Huntington's disease and Alzheimer's disease, neoplastic diseases and celiac disease. ¹	الناقل النسيجي للجلوتامين (انزيم) ^٢
IgA-type anti-tTG antibodies	The anti-tTG antibody test is an ELISA that is less operator-dependent and more quantitative than the immunofluorescence technique used to detect the anti-endomysial antibodies. ¹ It has sensitivity of 90% and specificity of 96% relative to local diagnostic standards the assay performed well. ³	الجلوبيولين المناعي أ المضاد للناقل النسيجي للجلوتامين ^٢
Anti-endomysial antibody (EMA)	EMA is an IgA antibody against the endomysium It is important to assess IgA level before performing it as selective IgA deficiency is common with coeliac disease, and if low a biopsy is mandatory. The sensitivity of the test varies from 74% to 100% and the specificity from 64% to 100%. EMA positivity could be used as a predictor of persistent villus atrophy, but a negative test does not indicate mucosal recovery and it is better to use anti-tTG. ⁴	الاجسام المضادة لغمد الليف العضلي ^٢

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