

CytoBead[®] CeliAK

Manual - Order no. 8064 | Automated - Order no. 4271

Diagnostic of Celiac disease

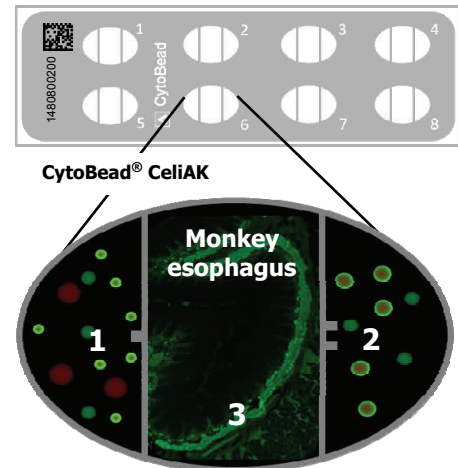


CytoBead® CeliAK

Multiparameter diagnostic of Celiac Disease

Celiac disease (gluten induced enteropathy) is a gluten intolerance leading to extended lesions of the mucous membranes manifested by a `flat` mucosa. Gliadin, the alcohol-soluble fraction of gluten, is responsible for the emergence of celiac disease. Gliadin induces inflammatory processes in the small intestinal mucosa as part of the humoral and cellular immune processes. The diagnosis of celiac disease is performed through highly specific autoantibodies against transglutaminase 2 (tissue transglutaminase, tTG) and deamidated gliadin (DG). Endomysial antibodies (EmA) are directed against extracellular tTG. Celiac antibodies are typically of IgA class whereas in celiac patients with IgA deficiency, antibodies of the IgG type form are the basis of diagnostics.

Monkey-esophagus-tissue	Compartment	Quantification	Antigen	Diagnostic Sensitivity & Specificity	Clinical relevance
Honey-comb pattern of muscularis mucosae	1	U/ml	tTG	99% & 98%	Celiac disease, Dermatitis Herpetiformis, IgA deficiency
	1	U/ml	DG	91% & 93%	
	2	AU	anti-IgA	< 0.2 g/l (>95%)	
	3	-	multi-parametric	98% & 99%	



References

Simultaneous detection of celiac disease-specific IgA antibodies and total IgA.

Grossmann K, Röber N, Hiemann R, Rödiger S, Schierack P, Reinhold D, Laass M.-W., Conrad K, Roggenbuck, D. Auto Immun Highlights. 2016 Dec, 7(1): 2

European Society for Padeatric Gastroenterology, Hematology, and Nutrition Guidelines for the Diagnosis of Coeliac Disease. Husby S, Koletzko S et.al. JPGN. 2012 Jan, 53(1)

ADVANTAGES of the CytoBead® CeliAK

- Fast diagnosis within only one test
- Quantification of antibodies against tTG and DG by AKLIDES® / akiron® automation
- Detection of IgA deficiency and EmA in parallel
- Omitting biopsies in accordance to the diagnosis criteria of ESPGHAN

Order information

AKLIDES® CytoBead® CeliAK	automated	MEDIPAN	Order no.	4271
CytoBead® CeliAK	manual	GA	Order no.	8064



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