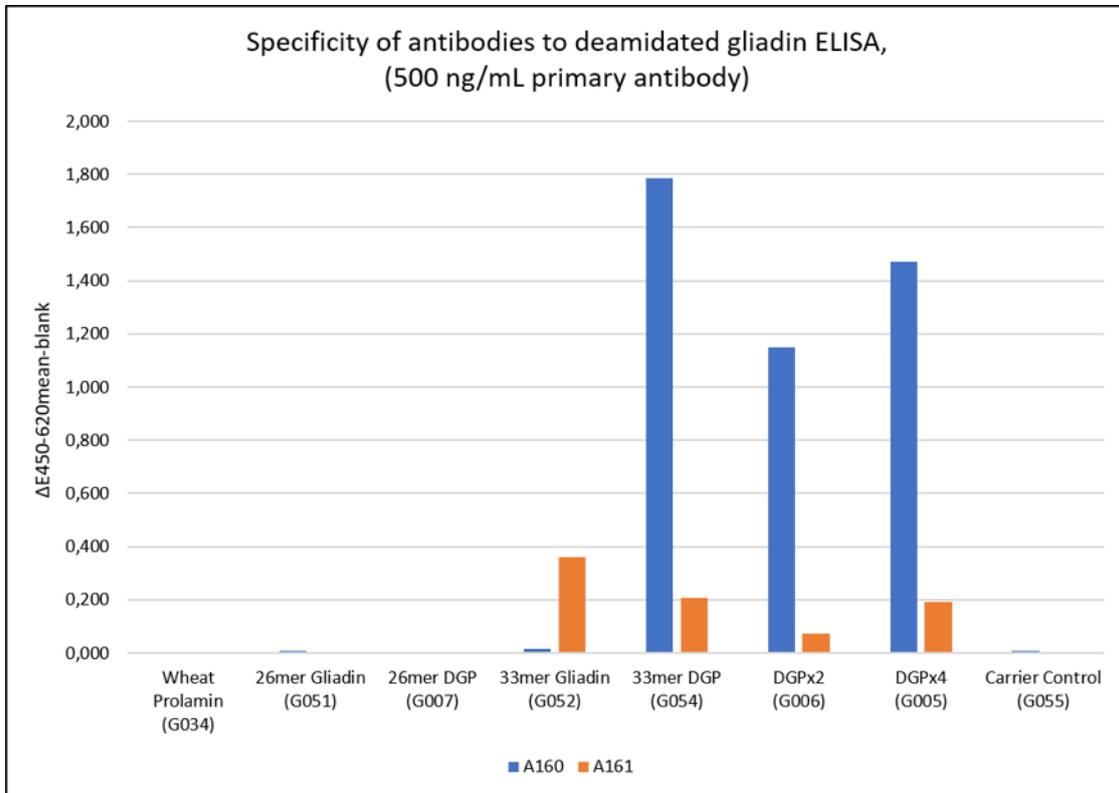


Product number **A161**
Revision number **RN2.0**

Product Name	Monoclonal antibody to deamidated and non-deamidated Gliadin
Background info	Tissue transglutaminase (TG2) catalyses gliadin deamidation in the intestinal mucosa of celiac disease patients, resulting in deamidated gliadin peptides which are recognized by HLA receptors (DQ2/DQ8) of immune cells. Antibodies to deamidated gliadin have been proven to be specific for celiac disease – in contrast to gliadin antibodies. Detection of deamidated gliadin antibodies now is used in celiac disease diagnostics.
Host	Mouse
Clone	ZDG-02
Isotype	IgG2a/k
Immunogen	Deamidated gliadin-related peptide Lys57-Glu65-[α -gliadin (58-73)] (KLQFPQP <u>E</u> LPYPQPQ).
Specificity	Recognizes Gliadin. Reacts equally strong with both the deamidated peptide (KLQFPQP <u>E</u> LPYPQPQ) and the non-deamidated peptide (KLQFPQPQLPYPQPQ) when coated directly in an immunoplate.
Description	The antibody is supplied as a liquid in PBS, pH 7.4
Appearance	liquid, 100 μ L with \sim 1 mg/mL
Application	Suitable for use in ELISA and Western Blot. Other applications not tested.
Working dilutions	Optimal dilutions should be determined by the end user. The following are guidelines only: ELISA: 1 / 64,000 Western-Blot: 1 / 1,000
Storage	Stable for short term at + 4 °C For extended periods: store aliquots at – 20 °C
Related products	G007 DGPx1 (deamidated gliadin peptide) G006 DGPx2 (Fusion protein of 2 deamidated gliadin peptides) G005 DGPx4 (Fusion protein of 4 deamidated gliadin peptides) A057 Monoclonal antibody to deamidated gliadin A011 Monoclonal antibody to gliadin (alpha, beta, gamma, omega) A160 Monoclonal antibody to deamidated Gliadin
References	Skovbjerg et al., Biochim. Biophys. Acta. 2004, 1690, 220-30
Release date	25 November 2021
NOTE	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.

Product number **A161**
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Description of antigens used for the above ELISA

Art. No.	Name	Structure
G051	26mer gliadin peptide	Carrier - 26mer γ-gliadin
G052	33mer gliadin peptide	Carrier - 33mer α-gliadin
G055	Carrier protein control	Carrier
G007	DGPx1 (26mer DGP)	Carrier - 26mer γ-gliadin, deamidated
G054	33mer DGP	Carrier - 33mer α-gliadin, deamidated
G006	DGPx2	Carrier - 33mer α-gliadin, deamidated - 26mer γ-gliadin, deamidated
G005	DGPx4	Carrier - 33mer α-gliadin, deamidated - 26mer γ-gliadin, deamidated - DQ2-γ1 - DQ2-γ2