



Mouse Anti-Gliadin monoclonal antibody, clone 5G4 (CABT-L2338)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody may also react with Wheat, barley, rye. This antibody cross-reacts fully with the non-deamidated peptide KLQPFQQLPYPQPQ
Immunogen	Gliadin-related peptide Lys57-Glu65-[alpha-gliadin (58-73)] (KLQPFQPELPYPQPQ)
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	N/A
Clone	5G4
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA, WB
Format	Liquid
Concentration	Lot specific
Buffer	PBS
Preservative	15mM Sodium Azide
Storage	4-8°C without exposure to light. No precautions necessary during handling.

BACKGROUND

Introduction

Celiac disease is associated with a CD4+ T-cell response to epitopes of gliadin presented by HLA-DQ2 or -DQ8 class II MHC molecules. These epitopes are present in a 33-mer peptide of wheat alpha-gliadin, residues 56-88, which is resistant to digestion and forms a substrate for tissue transglutaminase (TG2), generating the glutamic acid residues essential for binding to HLA-DQ2. The immunogen corresponds to a deamidated form of a region that includes the T-cell epitopes, including the immunodominant PQPQLPY region and two PXPQP motifs associated with binding to IgA from patients with celiac disease. Complete homology exists between residues 63-73, 70-80 and 77-87 of wheat alpha gliadin.

Keywords

LOC543191;alpha-type gliadin;prolamin;Gliadin