

## Product datasheet

# Recombinant Wheat Gliadin protein (His tag) ab124981

### Description

---

<b>Product name</b>	Recombinant Wheat Gliadin protein (His tag)
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Wheat
<b>Predicted molecular weight</b>	19 kDa including tags
<b>Additional sequence information</b>	Fused to a hexa-histidine tag. Epitopes correspond to the deamidated neo-epitopes, which in the natural antigen are formed by transglutaminase-mediated glutamine side chain deamidation.

### Specifications

---

Our [Abpromise guarantee](#) covers the use of **ab124981** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot ELISA SDS-PAGE
<b>Form</b>	Liquid

### Preparation and Storage

---

<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.48% HEPES, 20% Glycerol, 1.17% Sodium chloride
------------------------------	---

### General Info

---

<b>Relevance</b>	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 alcohol soluble proteins (prolamins) from wheat, rye, barley and oats produce the harmful effect of coeliac disease or gluten sensitive enteropathy in humans by causing characteristic changes in the intestinal mucosa. Patients so affected must avoid eating these grains and replace them with rice, corn, potatoes, etc. Many gluten-free foods are produced industrially, thus several immunoassays have been developed for determination of gliadin in supposedly gluten-free foods.

**Cellular localization**

Cytoplasmic; major seed storage protein in wheat.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

**Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

**Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors