

Anti-Gliadin [VHH26] Standard Size Ab02074-1.159

This chimeric mouse antibody was made using the variable domain sequences of the original VHH format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1-Fc fusion, Kappa

Clone Number: VHH26

Alternative Name(s) of Target: Alpha-gliadin; α -gliadin; Celiac Allergen; Coeliac Allergen

UniProt Accession Number of Target Protein: Q306G0

Published Application(s): ELISA

Published Species Reactivity: barley, rye, spelt, triticale, Wheat

Immunogen: The original antibody was prepared by immunization of Llama glama with whole gliadin.

Specificity: This antibody specifically recognizes and binds an epitope unique to wheat alpha gliadins.

Application Notes: This antibody specifically binds an epitope unique for wheat alpha gliadins which is not present in gamma or omega gliadins. It does not cross react with rye or barley gliadins. VHH26 can detect gliadins in denaturing conditions and it retains its binding capacity in presence of 15% ethanol, 0.5% 2-mercaptoethanol, and 0.5 M guanidinium chloride. Capture ELISA using VHH26 was able to detect gliadins in samples shown as negatives by conventional ELISA. This antibody can be used for detection of gluten in commercial food samples using ELISA (limit of detection 0.24 ppm) and by competitive ELISA using conventional antibodies (limit of detection: 1 ppm) (PMID: 20039674).

Antibody First Published in: Doña et al. Single domain antibodies are specially suited for quantitative determination of gliadins under denaturing conditions. J Agric Food Chem (2010); 58(2): 918-26.

[PMID:20039674](#)

Note on publication: Describes the generation and specific use of this antibody in the quantitative determination of gliadins.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration:

1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.