

## Anti-Transglutaminase 2 [679-14-E06] Standard Size Ab00419-10.7

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Human IgG1 sequence with a short dimerization domain to improve stability and a his tag.

This reformatted human antibody was made using the variable domain sequences of the original Human IgA format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human F(ab)2, AbFab2™ His-Tagged, Kappa

**Clone Number:** 679-14-E06

**Alternative Name(s) of Target:** TG2; Protein-Glutamine gamma-Glutamyltransferase 2

**UniProt Accession Number of Target Protein:** P21980

**Published Application(s):** ELISA

**Published Species Reactivity:** Human

**Immunogen:** Autoantigen TG2.

**Specificity:** The antibody binds to the N-terminal region of TG2 with a Kd of 55 nM.

**Application Notes:** This antibody binds to human Transglutaminase 2, an enzyme that catalyzes the isopeptide bond formation between an amine group and an acyl group at the end of the side chain of a glutamine. Anti-TG2 antibody are found in celiac disease and high levels of transglutaminase are found in Huntington's and Parkinson's.

**Antibody First Published in:** Chen et al. Structural basis for antigen recognition by transglutaminase 2-specific autoantibodies in celiac disease. Journal of Biological Chemistry 2015; Manuscript M115.669895

[PMID:26160175](#)

**Note on publication:** Describes autoantibodies against TG2 and crystallisation as well as molecular dynamic simulations.

### Product Form

**Size:** 100 µg Purified antibody.

**Purification:** Purified by Immobilized Metal Affinity Chromatography

**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.