

Anti-Transglutaminase 2 [679-14-E06] Standard Size Ab00419-1.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric mouse 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: Mouse IgG1, [Fc Silent™](#), 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: 200 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.