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AR19000PU-N OriGene EU

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Human Transglutaminase-2 (TGM2) - Purified

Alternate names:	Protein-glutamine gamma-glutamyltransferase 2, TGase C, TGase-H, Tissue transglutaminase
Catalog No.:	AR19000PU-N
Quantity:	20 µg
Concentration:	1 mg/ml
Background:	Celiac disease is an enteropathy that is characterized by intestinal lesions of variable severity. Tissue-type transglutaminase (tTG) is believed to be the predominant autoantigen for celiac disease and the corresponding autoantibodies show higher sensitivity and specificity than anti-gliadin antibodies. Highly pure recombinant human tTG is now available to replace the traditionally used tTG fraction from guinea pig. Tissue-type transglutaminase antigens have been specifically modified for improved handling: exchange of an active site amino acid eliminates the protein cross-linking activity of the enzyme, while maintaining the native three-dimensional structure and the enzyme's secondary GTPase activity. This engineering assures reproducible properties of the antigen preparations through the absence of variable and ill-defined covalent aggregates of tTG antigen and host cell proteins.
Uniprot ID:	<u>P21980</u>
NCBI:	<u>NP_004604</u>
GenelD:	7052
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% pure as determined by SDS-PAGE Buffer System: 16mM HEPES buffer pH-8.0, 400mM NaCl and 20% Glycerol
Applications:	 ELISA: Use at a concentration of 0.6-1.4 μg/ml (depending on the type of ELISA plate and coating buffer). Western-Blot with Monoclonal anti-Hexa-His-tag antibody. Suitable for Biotinylation and Iodination. Immunological Functions: Binds IgA & IgG-type human auto-antibodies. Standard ELISA test (checker-board analysis of positive/negative sera panels, immunodot test). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Description:	Recombinant Human Tissue Transglutaminase is produced in E.coli is a non-glycosylated, polypeptide chain having a molecular mass of 78,018 Dalton. tTG is expressed with a

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request. TUNORD TUNORD CERT BH EN ISO BOT Acres Antibodies Grant

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-6xHis tag and purified by proprietary chromatographic techniques. By point mutation of the active center the catalytic transglutaminase activity has been eliminated, resulting in increased stability during storage and coating. **Molecular weight:** 78 kDa

Storage: Store the antigen at 2-8°C for 2-4 weeks or frozen at -20°C for longer. Avoid multiple freeze-thaw cycles.



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