

Datasheet: AHP2142

Description:	GOAT ANTI HUMAN TRANSGLUTAMINASE 2
Specificity:	TRANSGLUTAMINASE 2
Other names:	TGM2
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/128000
Immunoprecipitation			▪	
Western Blotting	▪			0.03 - 0.1ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human TGM2 was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml

Immunogen	Synthetic peptide sequence C-NFESDKLKAVKGFR from the internal region (near the C-Terminal) of TGM2 (NP_004604.2).
External Database Links	UniProt: P21980 Related reagents Entrez Gene: 7052 TGM2 Related reagents
RRID	AB_10698189
Specificity	<p>Goat anti Human transglutaminase 2 antibody recognizes human Protein-glutamine gamma-glutamyltransferase 2, also known as Transglutaminase 2 (TGM2), or tissue Transglutaminase (tTG). TGM2 is a 687 amino acid member of the Transglutaminase family. It is a ubiquitously expressed calcium-dependent enzyme, with GTPase activity, which catalyzes protein cross-linking and the conjugation of polyamines to proteins.</p> <p>TGM2 has been implicated in several processes, including apoptosis (Hseih <i>et al.</i> 2013), the regulation of cytoskeletal structure, cell-matrix adhesion, cell migration, and wound healing (Fesus and Piacentini 2002). Antibodies against tTG are apparent in a high majority of patients with the autoimmune condition known as celiac disease, resulting in sensitivity to gluten (Gelderman <i>et al.</i> 2014). Three isoforms of TGM2 generated by alternative splicing exist. Goat anti Human transglutaminase 2 antibody is generated against a peptide spanning amino acid residues 667-680 of isoform 1. It does not recognize the other isoforms having carboxy-terminal deletions.</p>
Western Blotting	AHP2142 detects a band of approximately 90kDa in human lung cell lysates.
References	1. Maurano, F. <i>et al.</i> (2020) Innate immunity is a late event in the onset of gliadin-specific enteropathy in the HLA-DQ8 mice. Immunobiology. 225 (3): 151903.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10058 available at: https://www.bio-rad-antibodies.com/SDS/AHP2142 10058
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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