

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	0.02% Sodium Azide (NaN ₃)
Stabilisers	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	UniProt:

Entrez Gene:[7052](#)

TGM2

[Related reagents](#)**Specificity**

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.

TGM2 has been implicated in several processes, including apoptosis ([Hseih *et al.* 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 *et al.* 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.

Western Blotting

AHP2142 detects a band of approximately 90kDa in human lung cell lysates.

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10058 available at:
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

North & South America

Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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