

Datasheet: AHP2142

BATCH NUMBER 160610

| | |
|----------------------|------------------------------------|
| 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 | IgG concentration 0.5mg/ml |

Concentrations

| | |
|------------------|---|
| 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

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.

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/AHP214210058>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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|----------------------------------|---|------------------|---|---------------|---|
| 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 |
|----------------------------------|---|------------------|---|---------------|---|

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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