Datasheet: AHP2142

<table>
<thead>
<tr>
<th>Description</th>
<th>GOAT ANTI HUMAN TRANSGLUTAMINASE 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>TRANSGLUTAMINASE 2</td>
</tr>
<tr>
<td>Other names</td>
<td>TGM2</td>
</tr>
<tr>
<td>Format</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type</td>
<td>Polyclonal Antibody</td>
</tr>
<tr>
<td>Isotype</td>
<td>Polyclonal IgG</td>
</tr>
<tr>
<td>Quantity</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

### Product Details

**RRID**

AB_10698189

**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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<tr>
<td>Western Blotting</td>
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<td>0.03 - 0.1ug/ml</td>
</tr>
</tbody>
</table>

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 (NaN₃)
- 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

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

18 months from date of despatch.

Health And Safety Information


Related Products

Recommended Secondary Antibodies

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

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