Overview

Product name: Anti-Transglutaminase 2 antibody
Description: Rabbit polyclonal to Transglutaminase 2
Host species: Rabbit
Specificity: This antibody recognises transglutaminase enzyme. MW is approximately 82kDa. This antibody cross-reacts with Factor XIIIA, Keratinocyte Tgase (TG-3), and Prostate Tgase (TG-4).

Tested applications: Suitable for: WB, ELISA, IHC-P, IHC-Fr, ICC/IF
Species reactivity: Reacts with: Mouse, Rat, Guinea pig, Human
Immunogen: Full length native protein (purified) (Guinea Pig).
Positive control: IHC-P: liver sections WB: human fibroblasts (see review), guinea pig liver lysate

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Constituent: Whole serum
Purity: Whole antiserum
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab421 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>1/200 - 1/5000.</td>
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<tr>
<td>ELISA</td>
<td></td>
<td>1/300. 1/300 (See Abreview).</td>
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**Function**

Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins.

**Sequence similarities**

Belongs to the transglutaminase superfamily. Transglutaminase family.

**Images**

- **Western blot - Anti-Transglutaminase 2 antibody (ab421)**
  - This was submitted as part of a review by Dr O Fromigue

- **Immunocytochemistry/ Immunofluorescence - Anti-Transglutaminase 2 antibody (ab421)**
  - ICC/IF image of ab421 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab421, 1/1000 dilution) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.
Immunohistochemical analysis of murine intestine tissue treated with poly(I:C), staining Transglutaminase 2 with ab421.

Tissue was fixed with paraformaldehyde, permeabilized with 0.3% Triton X-100 for 10 min at RT, then blocked in 0.3% Triton X-100 and 5% goat serum in PBS. Samples were incubated with primary antibody (1/250) overnight at 4°C. An AlexaFluor®488-conjugated anti-rabbit IgG was used as the secondary antibody.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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