Product datasheet

Anti-Transglutaminase 2 antibody [CUB 7402] ab2386

Overview

Product name: Anti-Transglutaminase 2 antibody [CUB 7402]
Description: Mouse monoclonal [CUB 7402] to Transglutaminase 2
Host species: Mouse
Tested applications: Suitable for: IHC-P, WB, ICC/IF, Flow Cyt
Species reactivity: Reacts with: Mouse, Rabbit, Guinea pig, Cat, Dog, Human
Immunogen: Full length native protein (purified) corresponding to Transglutaminase 2. Purified from liver.
Database link: P08587
Epitope: Epitope mapping for this antibody is amino acid 447-478
Positive control: IHC-P: Human breast carcinoma tissue.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.05% Sodium azide
Constituent: 1% BSA
Purity: IgG fraction
Clonality: Monoclonal
Clone number: CUB 7402
Myeloma: unknown
Isotype: IgG1
Light chain type: unknown

Applications

Our Abpromise guarantee covers the use of ab2386 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Function**
Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins.

**Sequence similarities**
Belongs to the transglutaminase superfamily. Transglutaminase family.

### Images
ab2386 staining breast carcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/50) for 30 minutes at 22°C.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>★★★★☆☆</td>
<td>1/50 - 1/75. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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<tr>
<td>WB</td>
<td>★★★★★☆☆☆</td>
<td>Use at an assay dependent concentration. PubMed: 18397883</td>
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<tr>
<td>ICC/IF</td>
<td>★★★★★☆☆☆</td>
<td>Use at an assay dependent concentration. PubMed: 19398782</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>★★★★★☆☆☆</td>
<td>1/10. Methanol fixed cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.</td>
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</tbody>
</table>

**Target**

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

**Sequence similarities**
Belongs to the transglutaminase superfamily. Transglutaminase family.
ab2386 staining Transglutaminase 2 in human SW480 colorectal carcinoma cells by Immunocytochemistry/Immunofluorescence. Cells were fixed with 4% paraformaldehyde in 1X PBS/1% BSA for 7 min at RT and permeabilized with 0.1% Triton-X100 in PBS for 5 min at RT. Samples were incubated with primary antibody (1/100: in 1X PBS / 1% BSA) for 20 minutes at 20°C. An FITC-conjugated rat polyclonal to mouse IgG was used at dilution at 1/300 as secondary antibody. Slides counterstained with DAPI, and mounted with commercially available Prolong Slow-fade mounting medium.

Overlay histogram showing HCT116 cells stained with ab2386 (red line). The cells were fixed with methanol (5 min) and incubated in 1X PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab2386, 1/10 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a decreased signal in HCT116 cells fixed with 4% paraformaldehyde (10 min) used under the same conditions.

ab2386 staining Transglutaminase 2 in rat lung tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% casein in PBS for 15 minutes at room temperature; antigen retrieval was by heat mediation in a citrate buffer, pH 6. Samples were incubated with primary antibody (1/200 in TBS + BSA) for 20 minutes. ab98782 was used as the secondary antibody at a dilution of 1/400.

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