**Product datasheet**

**Anti-Galectin 3 antibody [A3A12] ab2785**

🌟🌟🌟🌟 12 Abreviews  32 References  画像数 11

**製品の概要**

**製品名**  Anti-Galectin 3 antibody [A3A12]

**製品の詳細**  Mouse monoclonal [A3A12] to Galectin 3

**由来種**  Mouse

**特異性**  By Western blot, this antibody detects an ~30 kDa protein representing Galectin 3 from Jurkat cells transfected with human Galectin 3. Immunohistochemical staining of Galectin 3 in rat olfactory bulb yields a pattern consistent with nuclear and plasma membrane staining.

**アプリケーション**  適用あり: ELISA, IHC-Fr, WB, ICC/IF, IHC-P, ICC

**適用なし:** IP

**種交差性**  交差種: Mouse, Rat, Rabbit, Human

**免疫原**  Recombinant full length protein corresponding to Human Galectin 3.

**エピトープ**  The epitope for this antibody has been mapped to the first 58 amino acids of Galectin 3.

**ポジティブ・コントロール**  WB: Jurkat cells transfected with human galectin-3  IHC: rat olfactory bulb.

**特記事項**  This antibody has been shown to potentiate the binding of Galectin 3 to IgG.

**製品の特性**

**製品の状態**  Liquid

**保存方法**  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.

**バッファー**  Preservative: 0.05% Sodium azide

**精製度**  Affinity purified

**一次抗体 備考**  This antibody has been shown to potentiate the binding of Galectin 3 to IgG.

**ポリ/モノ**  モノクローナル

**クローン名**  A3A12

**アイソタイプ**  IgG1
Our Abpromise guarantee covers the use of ab2785 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>アプリケーション</th>
<th>Abreviews</th>
<th>特記事項</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td>★★★★★</td>
<td>Use a concentration of 6 µg/ml.</td>
</tr>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 30 kDa (predicted molecular weight: 26 kDa).</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★★</td>
<td>1/20 - 1/200.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★★</td>
<td>1/20 - 1/200.</td>
</tr>
<tr>
<td>ICC</td>
<td>★★★★★</td>
<td>1/200.</td>
</tr>
</tbody>
</table>

追加情報

Is unsuitable for IP.

ターゲット情報

機能
Galactose-specific lectin which binds IgE. May mediate with the alpha-3, beta-1 integrin the stimulation by CSPG4 of endothelial cells migration. Together with DMBT1, required for terminal differentiation of columnar epithelial cells during early embryogenesis.

組織特異性
A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages.

配列類似性
Contains 1 galectin domain.

細胞内局在
Nucleus. Cytoplasmic in adenomas and carcinomas. May be secreted by a non-classical secretory pathway and associate with the cell surface.

画像
All lanes: Anti-Galectin 3 antibody [A3A12] (ab2785) at 1/1000 dilution

Lane 1: MCF-7 cell lysate
Lane 2: HeLa cell lysate
Lane 3: NIH-3T3 cell lysate

Lysates/proteins at 25 µg/ml per lane.

Predicted band size: 26 kDa
Observed band size: 30 kDa

why is the actual band size different from the predicted?

ab2785 labelling Galectin 3 in the nucleus and cytoplasm of Human ovarian carcinoma tissue (right) compared with a negative control (left) by Immunohistochemistry (formalin/PFA-fixed paraffin-embedded sections). To expose target proteins, antigen retrieval method was performed using 10mM sodium citrate (pH 6.0) microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature. Tissue sections were incubated with the primary antibody (1:100 in 3% BSA-PBS) overnight at 4°C. A HRP-conjugated anti-mouse IgG was used as the secondary antibody, followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

ab2785 labelling Galectin 3 (green) in the cytoplasm and nucleus of HeLa cells by Immunocytochemistry/Immunofluorescence. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were incubated with the primary antibody (1:100 in 3% BSA-PBS) overnight at 4 °C. A DyLight-conjugated anti-mouse was used as the secondary antibody. Red (phalloidin) - F-actin, Blue - nuclei. Images were taken at a magnification of 60x.
ab2785 labelling Galectin 3 (green) in the cytoplasm and nucleus of NIH-3T3 cells by Immunocytochemistry/Immunofluorescence. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were incubated with the primary antibody (1:100 in 3% BSA-PBS) overnight at 4 °C. A DyLight-conjugated anti-mouse was used as the secondary antibody. Red (phalloidin) - F-actin, Blue - nuclei. Images were taken at a magnification of 60x.

ab2785 labelling Galectin 3 (green) in the cytoplasm and nucleus of MCF-7 cells by Immunocytochemistry/Immunofluorescence. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were incubated with the primary antibody (1:100 in 3% BSA-PBS) overnight at 4 °C. A DyLight-conjugated anti-mouse was used as the secondary antibody. Red (phalloidin) - F-actin, Blue - nuclei. Images were taken at a magnification of 60x.

ab2785 labelling Galectin 3 in the nucleus and cytoplasm of Human colon tissue (right) compared with a negative control (left) by Immunohistochemistry (formalin/PFA-fixed paraffin-embedded sections). To expose target proteins, antigen retrieval method was performed using 10mM sodium citrate (pH 6.0) microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature. Tissue sections were incubated with the primary antibody (1:100 in 3% BSA-PBS) overnight at 4°C. A HRP-conjugated anti-mouse IgG was used as the secondary antibody, followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.
ab2785 labelling Galectin 3 in the nucleus and cytoplasm of Mouse colon tissue (right) compared with a negative control (left) by Immunohistochemistry (formalin/PFA-fixed paraffin-embedded sections). To expose target proteins, antigen retrieval method was performed using 10mM sodium citrate (pH 6.0) microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature. Tissue sections were incubated with the primary antibody (1:20 in 3% BSA-PBS) overnight at 4°C. A HRP-conjugated anti-mouse IgG was used as the secondary antibody, followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

Western blot using ab2785 at 1:1000. Review by Bo Su submitted 26 July 2004.

Western blot using ab2785 at 1:1000. Review by Bo Su submitted 26 July 2004

ICC/IF image of ab2785 stained HeLa cells. The cells were 4% PFA fixed (10 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 (ab2785, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse 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.
Immunohistochemistry (Frozen sections) analysis of human retina tissue sections labeling Galectin 3 with ab2785 at 1/200 dilution. Tissue was fixed with paraformaldehyde, followed by blocking with 10% serum for 30 minutes at 24°C. The tissue was incubated with ab2785 at 1/200 for 2 hours at 24°C in PBS. A polyclonal goat anti-mouse Alexa Fluor® 488 secondary antibody was used at 1/1000 dilution.

ab2785 staining Galectin 3 in rat spleen tissue by Immunohistochemistry (Frozen sections). Tissue was fixed in paraformaldehyde, blocked with 20% serum for 20 minutes at 24°C, then incubated with ab2785 at a 1/200 dilution for 16 hours at 4°C. The secondary used was an Alexa-Fluor 488 conjugated donkey anti-mouse polyclonal used at a 1/1000 dilution. Counterstained with Hoechst 33258 (blue).

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