# Product datasheet

## Anti-Galectin 3 antibody ab31707

## Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-Galectin 3 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to Galectin 3</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: ICC/IF, WB</td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td><strong>Predicted to work with</strong></td>
<td>Dog, Pig</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Synthetic peptide corresponding to Human Galectin 3 aa 200 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab31706)</td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
<td>Recombinant human Galectin 3 protein (ab50236) can be used as a positive control in WB. HeLa (Human epithelial carcinoma cell line) Whole Cell and Nuclear Lysates.</td>
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</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Storage buffer</strong></td>
<td>pH: 7.40&lt;br&gt;Preservative: 0.02% Sodium azide&lt;br&gt;Constituent: PBS</td>
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<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
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## Applications
Function
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.

Tissue specificity
A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages.

Sequence similarities
Contains 1 galectin domain.

Cellular localization
Nucleus. Cytoplasmic in adenomas and carcinomas. May be secreted by a non-classical secretory pathway and associate with the cell surface.

Images

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: Galectin 3 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: MCF7 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab31707 observed at 32 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab31707 was shown to specifically recognize Galectin 3 in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when Galectin 3 knockout samples were examined. Wild-type and Galectin 3 knockout samples were subjected to SDS-PAGE. Ab31707 and ab8245 (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1 µg/ml and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.
ICC/IF image of ab31707 stained human HeLa cells. The cells were PFA fixed (10 min), permeabilised in TBS-T (20 min) and incubated with the antibody (ab31707, 1µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to quench autofluorescence and block non-specific protein-protein interactions. 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). DAPI was used to stain the cell nuclei (blue).

All lanes: Anti-Galectin 3 antibody (ab31707) at 1 µg/ml

Lane 1: HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2: HeLa (Human epithelial carcinoma cell line) Nuclear Lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: IRDye 680 Conjugated Goat Anti Rabbit IgG (H&L) at 1/15000 dilution

Performed under reducing conditions.

Predicted band size: 26 kDa
Observed band size: 30 kDa
why is the actual band size different from the predicted?

We also see a very faint band at 52 kDa in the HeLa Whole cell lysate, we are uncertain as to the identity of this band.

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