**Product datasheet**

**Anti-YKL-40/CHI3L1 antibody ab180569**

### Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-YKL-40/CHI3L1 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to YKL-40/CHI3L1</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: WB, IHC-P</td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Mouse, Rat, Human</td>
</tr>
<tr>
<td><strong>Predicted to work with</strong></td>
<td>Pig, Orangutan</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Recombinant full length protein corresponding to Human YKL-40/CHI3L1 aa 1-383. Sequence:</td>
</tr>
<tr>
<td></td>
<td>MGVKASQTGFVVLLQLQCSCAYKLVCYYTSWSQYRE</td>
</tr>
<tr>
<td></td>
<td>GDGSCFPDALDRFL</td>
</tr>
<tr>
<td></td>
<td>CTHIYSFANISNDHIDTWEWNDVTLYGMLNTLKNRNPN</td>
</tr>
<tr>
<td></td>
<td>LKTLSSVGGWN</td>
</tr>
<tr>
<td></td>
<td>FGSQRFSKIASNTQSRRTFIKSVPPFLRTHGFDGLDLA</td>
</tr>
<tr>
<td></td>
<td>WLYPGRRDKQHF</td>
</tr>
<tr>
<td></td>
<td>TTTIKEMKAEIFKEAQPQKQQLLLSAALSAGKVTIDSSY</td>
</tr>
<tr>
<td></td>
<td>DIAKISQHLDF</td>
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<tr>
<td></td>
<td>ISIMTYDFHGAWRTTGHSHPLFRQEDASPDRFSNT</td>
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<tr>
<td></td>
<td>DAVYMRLGLGAP</td>
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<tr>
<td></td>
<td>ASKLVMGITPGRSFTLASSETGVGAPISGPGPGRFTK</td>
</tr>
<tr>
<td></td>
<td>EAGTLAYEIC</td>
</tr>
<tr>
<td></td>
<td>DFLRGATVHRILGQVQPVATKGNQWVGYDDQESVKS</td>
</tr>
<tr>
<td></td>
<td>KVQYKLDRQLAGAM</td>
</tr>
<tr>
<td></td>
<td>VWALLDFFQGSGFCGQLRFPLTNAIKDALAAT</td>
</tr>
<tr>
<td><strong>Database link:</strong></td>
<td>P36222</td>
</tr>
</tbody>
</table>

**Positive control**

TPH1 cell extracts.

**General notes**

Previously labelled as CHI3L1

### Properties

| **Form** | Liquid |

### References

1

### Images

2

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Run BLAST with

Run BLAST with
Storage instructions

Storage buffer
pH: 7.30
Preservative: 0.02% Sodium azide
Constituents: 49% PBS, 50% Glycerol

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications
Our Abpromise guarantee covers the use of ab180569 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>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>1/50 - 1/100. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
<td></td>
</tr>
</tbody>
</table>

Target

Function
Carbohydrate-binding lectin with a preference for chitin. May play a role in defense against pathogens, or in tissue remodeling. May play an important role in the capacity of cells to respond to and cope with changes in their environment.

Tissue specificity
Present in activated macrophages, articular chondrocytes, synovial cells as well as in liver. Undetectable in muscle tissues, lung, pancreas, mononuclear cells, or fibroblasts.

Involvement in disease
A genetic variation in CHI3L1 is associated with susceptibility to asthma-related traits type 7 (ASRT7) [MIM:611960]. Asthma-related traits include clinical symptoms of asthma, such as coughing, wheezing and dyspnea, bronchial hyperresponsiveness (BHR) as assessed by methacholine challenge test, serum IgE levels, atopy, and atopic dermatitis.

Sequence similarities
Belongs to the glycosyl hydrolase 18 family.

Post-translational modifications
Glycosylated.

Cellular localization
Secreted > extracellular space.
Western blot - Anti-YKL-40/CHI3L1 antibody (ab180569)

Anti-YKL-40/CHI3L1 antibody (ab180569) at 1/500 dilution + THP-1 cell lysate

**Predicted band size:** 43 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human thyroid cancer tissue labelling YKL-40/CHI3L1 with ab180569 at a dilution of 1/50.

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