**Product datasheet**

**Anti-CTHRC1 antibody ab85739**

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**Overview**

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-CTHRC1 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to CTHRC1</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-Fr, IHC-P, ICC/IF</td>
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<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Mouse, Human</td>
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<tr>
<td></td>
<td>Predicted to work with: Rat, Cow</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Synthetic peptide conjugated to KLH derived from within residues 150 to the C-terminus of Human CTHRC1. Read Abcam's proprietary immunogen policy (Peptide available as ab101727).</td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
<td>This antibody gave a positive signal in the following lysates: Brain (Human) Tissue Lysate; Heart (Human) Tissue Lysate; Blood Vessel: artery (Human) Membrane Lysate; HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate; HEK293 (Human embryonic kidney cell line) Whole Cell Lysate</td>
</tr>
</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>
</tbody>
</table>
| **Storage buffer** | Preservative: 0.02% Sodium Azide  
Constituents: 1% BSA, PBS, pH 7.4 |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

**Applications**

Our Abpromise guarantee covers the use of ab85739 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Function**
May act as a negative regulator of collagen matrix deposition.

**Tissue specificity**
Isoform 1 is expressed in calcified atherosclerotic plaque and chondrocyte-like cells.

**Sequence similarities**
Contains 1 collagen-like domain.

**Post-translational modifications**
N-glycosylated.

**Cellular localization**
Secreted > extracellular space > extracellular matrix.

### Images

**All lanes** : Anti-CTHRC1 antibody (ab85739) at 1 µg/ml

**Lane 1** : Human brain tissue lysate - total protein (ab29466)
**Lane 2** : Human heart tissue lysate - total protein (ab29431)
**Lane 3** : Human blood vessel: artery normal tissue lysate - membrane extract (ab28989)
**Lane 4** : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate
**Lane 5** : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (HRP), pre-adsorbed at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.
Predicted band size: 26 kDa
Observed band size: 20 kDa
Why is the actual band size different from the predicted?

Exposure time: 10 minutes

We predict that the 20 kDa band represents the cleaved form of CTHRC1. Abcam welcomes customer feedback.

Ab85739 staining CTHRC1 on E8.5 mouse embryo sections by immunohistochemistry. The tissue was paraformaldehyde fixed and permeabilized in PBST prior to blocking in NOVOCASTRA protein block for 30 minutes at 25°C. The primary antibody was diluted 1/100 and incubated with the sample for 48 hour at 4°C. An Alexa Fluor 555 conjugated donkey anti-rabbit antibody, diluted 1/1000, was used as the secondary. Nuclear staining shown with DAPI.

ICC/IF image of ab85739 stained HepG2 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 (ab85739, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899 Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 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.
All lanes: Anti-CTHRC1 antibody (ab85739) at 1 µg/ml

Lane 1: Human brain tissue lysate - total protein (ab29466)
Lane 2: Human heart tissue lysate - total protein (ab29431)
Lane 3: Human blood vessel: artery normal tissue lysate - membrane extract (ab28989)
Lane 4: Human brain tissue lysate - total protein (ab29466) with Human CTHRC1 peptide (ab101727) at 1 µg/ml
Lane 5: Human heart tissue lysate - total protein (ab29431) with Human CTHRC1 peptide (ab101727) at 1 µg/ml
Lane 6: Human blood vessel: artery normal tissue lysate - membrane extract (ab28989) with Human CTHRC1 peptide (ab101727) at 1 µg/ml

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (HRP), pre-adsorbed at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 26 kDa
Observed band size: 20 kDa why is the actual band size different from the predicted?

Exposure time: 20 minutes
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTHRC1 antibody (ab85739)

**IHC image of CTHRC1 staining in human skin melanoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F.** The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab85739, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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