

## Product datasheet

# Anti-CTHRC1 antibody ab85739

★★★★★ [2 Abreviews](#) [19 References](#) [4 Images](#)

### Overview

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<b>Product name</b>	Anti-CTHRC1 antibody
<b>Description</b>	Rabbit polyclonal to CTHRC1
<b>Host species</b>	Rabbit
<b>Specificity</b>	Replenishment batches of our polyclonal antibody, ab85739 are tested in WB. Previous batches were additionally validated in ICC/IF and IHC-P. These applications are still expected to work and are covered by our Abpromise guarantee. You may also be interested in our alternative recombinant antibody, <a href="#">ab256458</a> .
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow 
<b>Immunogen</b>	Synthetic peptide corresponding to Human CTHRC1 aa 150 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab101727</a> )
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our

scientific support team who will be happy to help.

<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** 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.

Application	Abreviews	Notes
<b>WB</b>	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 20 kDa (predicted molecular weight: 26 kDa).
<b>IHC-P</b>		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
<b>ICC/IF</b>		Use a concentration of 1 - 5 µg/ml.

## Target

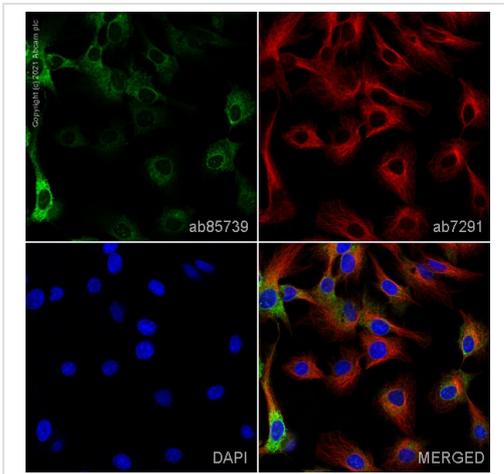
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<b>Function</b>	May act as a negative regulator of collagen matrix deposition.
<b>Tissue specificity</b>	Isoform 1 is expressed in calcified atherosclerotic plaque and chondrocyte-like cells.
<b>Sequence similarities</b>	Contains 1 collagen-like domain.
<b>Post-translational modifications</b>	N-glycosylated.
<b>Cellular localization</b>	Secreted > extracellular space > extracellular matrix.

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## Images

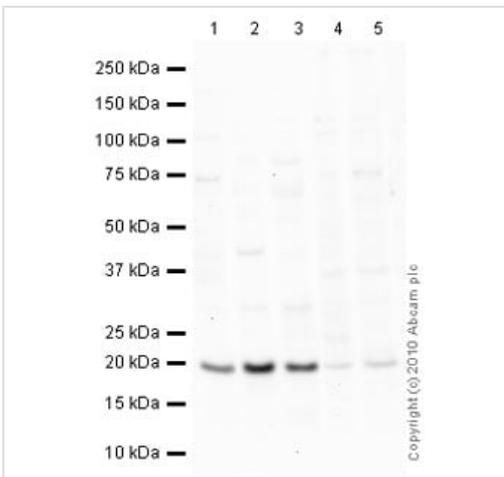
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Immunocytochemistry/ Immunofluorescence - Anti-CTHRC1 antibody (ab85739)

ab85739 staining CTHRC1 in HepG2 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab85739 at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Western blot - Anti-CTHRC1 antibody (ab85739)

**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.

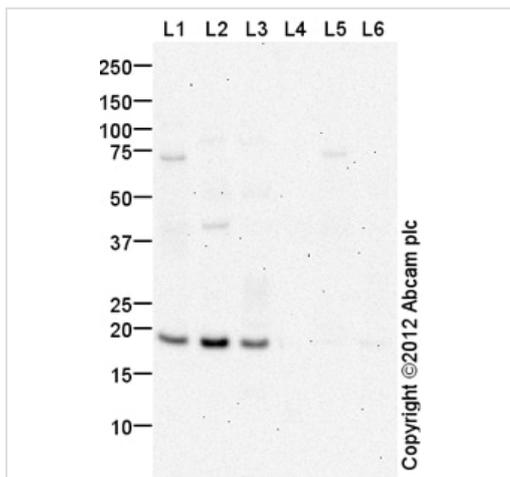
Performed under reducing conditions.

**Predicted band size:** 26 kDa

**Observed band size:** 20 kDa

**Exposure time:** 10 minutes

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



Western blot - Anti-CTHRC1 antibody (ab85739)

**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

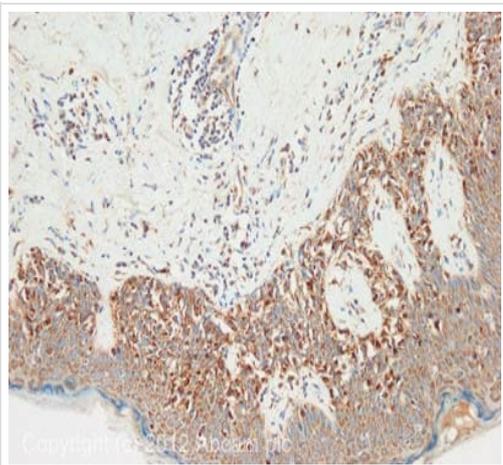
Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 26 kDa

**Observed band size:** 20 kDa

**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. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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