

Product datasheet

Anti-Hyaluronan synthase 2 antibody [4E7] ab140671

★★★★★ [6 Abreviews](#) [9 References](#) [5 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-Hyaluronan synthase 2 antibody [4E7] |
| Description | Mouse monoclonal [4E7] to Hyaluronan synthase 2 |
| Host species | Mouse |
| Tested applications | Suitable for: WB, IHC-P, ICC/IF, Flow Cyt |
| Species reactivity | Reacts with: Human |
| Immunogen | Purified recombinant fragment, corresponding to amino acids 67-170 of Human Hyaluronan synthase 2, expressed in E. coli. Run BLAST with Expasy Run BLAST with NCBI |
| Positive control | Recombinant Human Hyaluronan synthase 2 protein; NTERA2 and HEK293 cell lysates; HeLa cells. Human ovarian cancer tissue. |
| General notes | <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&As</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. |
| Storage buffer | Preservative: 0.05% Sodium azide Constituent: 99% PBS |
| Purity | Contains 0.5% protein stabilizer. Protein G purified |
| Purification notes | Purified from tissue culture supernatant. |
| Clonality | Monoclonal |
| Clone number | 4E7 |

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab140671 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 |
|-------------|-----------|--|
| WB | ★★★★☆ (2) | 1/500 - 1/2000. Predicted molecular weight: 64 kDa. |
| IHC-P | ★★★★☆ (2) | 1/200 - 1/1000. |
| ICC/IF | ★★★★☆ (2) | 1/100 - 1/500. |
| Flow Cyt | | Use 0.1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |

Target

Function

Plays a role in hyaluronan/hyaluronic acid (HA) synthesis.

Tissue specificity

Expressed in fibroblasts.

Pathway

Glycan biosynthesis; hyaluronan biosynthesis.

Involvement in disease

Note=A chromosomal aberration involving HAS2 may be a cause of lipoblastomas, which are benign tumors resulting from transformation of adipocytes, usually diagnosed in children. 8q12.1 to 8q24.1 intrachromosomal rearrangement with PLAG1.

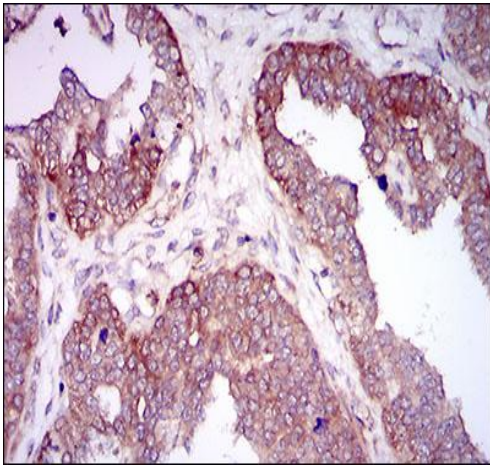
Sequence similarities

Belongs to the nodC/HAS family.

Cellular localization

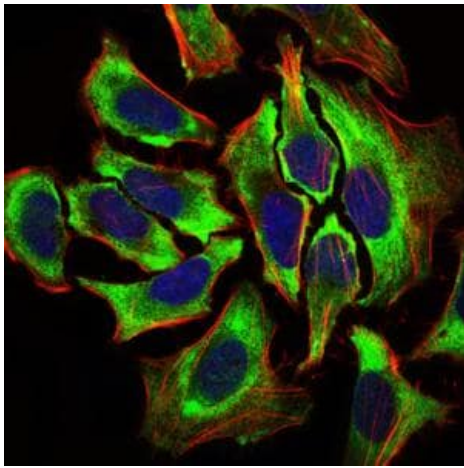
Membrane.

Images



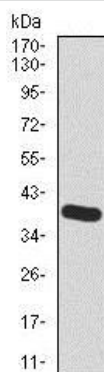
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hyaluronan synthase 2 antibody [4E7] (ab140671)

Immunohistochemical analysis of paraffin-embedded Human ovarian cancer tissue labeling Hyaluronan synthase 2 with ab140671 at 1/200 dilution followed by DAB staining.



Immunocytochemistry/ Immunofluorescence - Anti-Hyaluronan synthase 2 antibody [4E7] (ab140671)

Immunofluorescent analysis of HeLa cells labelling Hyaluronan synthase 2 with ab140671 at 1/100 dilution (green); Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

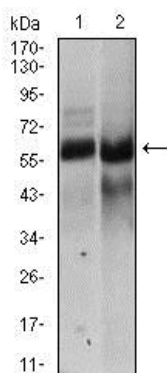


Western blot - Anti-Hyaluronan synthase 2 antibody [4E7] (ab140671)

Anti-Hyaluronan synthase 2 antibody [4E7] (ab140671) at 1/500 dilution + Recombinant Human Hyaluronan synthase 2 protein

Predicted band size: 64 kDa

Expected MW is 37.5 kDa



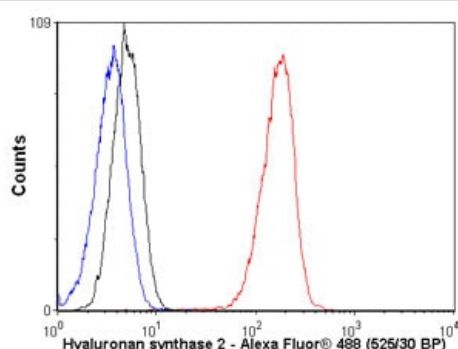
Western blot - Anti-Hyaluronan synthase 2 antibody [4E7] (ab140671)

All lanes : Anti-Hyaluronan synthase 2 antibody [4E7] (ab140671)
at 1/500 dilution

Lane 1 : NTERA2 cell lysate

Lane 2 : HEK293 cell lysate

Predicted band size: 64 kDa



Flow Cytometry - Anti-Hyaluronan synthase 2 antibody [4E7] (ab140671)

Overlay histogram showing HeLa cells stained with ab140671 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab140671, 0.1 µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) ([ab150113](#)) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 1 µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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