

Product datasheet

Anti-Hyaluronan synthase 2 antibody [4E7] ab140671

★★★★☆ 4 Abreviews 6 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.

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 Contains 0.5% protein stabilizer.
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	4E7
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab140671** in the following tested applications.

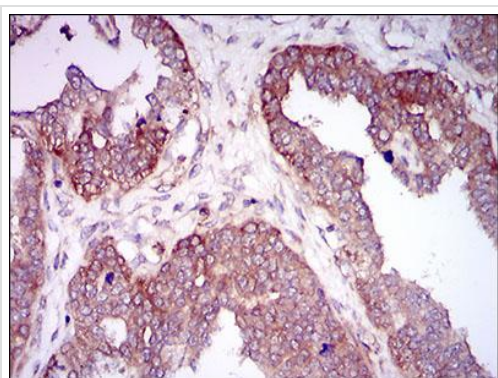
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	1/500 - 1/2000. Predicted molecular weight: 64 kDa.
IHC-P	★★★★☆	1/200 - 1/1000.
ICC/IF	★☆☆☆☆	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

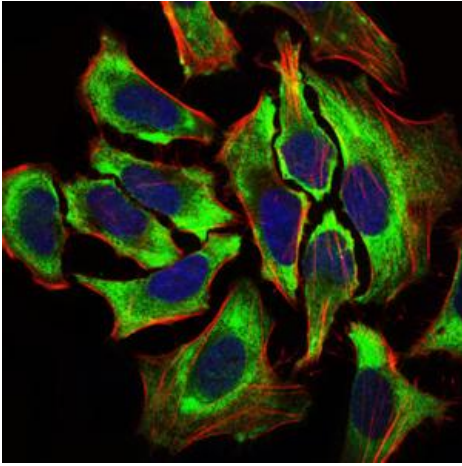
Function	Plays a role in hyaluronan/hyaluronic acid (HA) synthesis.
Tissue specificity	Expressed in fibroblasts.
Pathway	Glycan biosynthesis; hyaluronan biosynthesis.
Involvement in disease	Note=A chromosomal aberration involving HAS2 may be a cause of lipoblastomas, which are benign tumors resulting 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



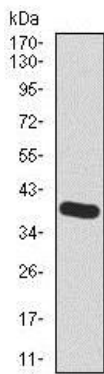
Immunohistochemical analysis of paraffin-embedded Human ovarian cancer tissue labeling Hyaluronan synthase 2 with [ab140671](#) at 1/200 dilution followed by DAB staining.

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



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.

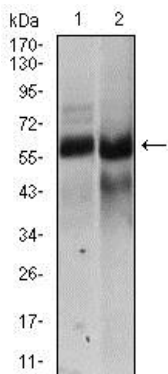


Western blot - Anti-Hyaluronan synthase 2 antibody [4E7] (ab140671)

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



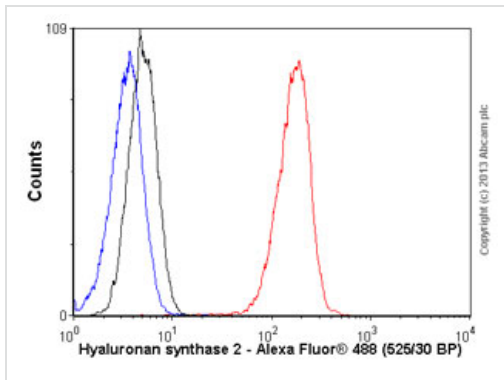
Western blot - Anti-Hyaluronan synthase 2 antibody [4E7] (ab140671)

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 $\mu\text{g}/1 \times 10^6$ 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 $\mu\text{g}/1 \times 10^6$ 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.

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