

## Product datasheet

### Anti-Syndecan-1 antibody [EPR6454] ab128936

Recombinant **RabMAb**

★★★★★ [7 Abreviews](#) [39 References](#) [13 Images](#)

#### Overview

<b>Product name</b>	Anti-Syndecan-1 antibody [EPR6454]
<b>Description</b>	Rabbit monoclonal [EPR6454] to Syndecan-1
<b>Host species</b>	Rabbit
<b>Specificity</b>	Based on negative staining of mouse and rat spleen and stomach tissues in IHC-P we believe this antibody is unsuitable for IHC-P with mouse and rat. We believe the antibody is suitable for Western blot with mouse and rat based on data from brain, heart, kidney, and spleen lysates. Please contact our Scientific Support team for more information.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), ICC/IF, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	Human colon and cervical carcinoma tissues; Fetal kidney, HeLa, PC12, U266B1, Raji, Ramos and BxPC-3 cell lysates.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<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. Stable for 12 months at -20°C.
<b>Storage buffer</b>	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol, 59% PBS, 0.05% BSA</p>
<b>Purity</b>	Protein A purified

Clonality	Monoclonal
Clone number	EPR6454
Isotype	IgG

## Applications

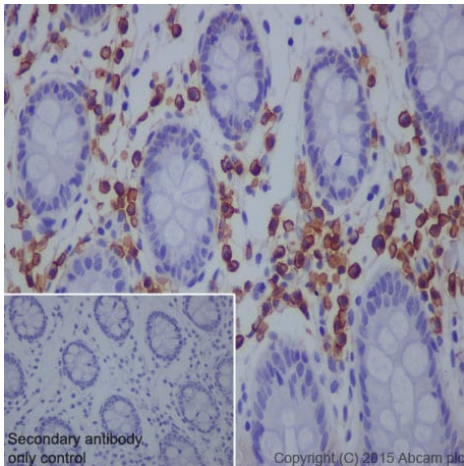
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab128936 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/1000. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	Use a concentration of 2 µg/ml.
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 35 kDa (predicted molecular weight: 32 kDa).
IHC-P	★★★★★ (1)	1/8000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. <b>For unpurified, use 1/500 - 1/1000.</b>  Based on negative staining of mouse and rat spleen and stomach tissues in IHC-P we believe this antibody is unsuitable for IHC-P with mouse and rat.

## Target

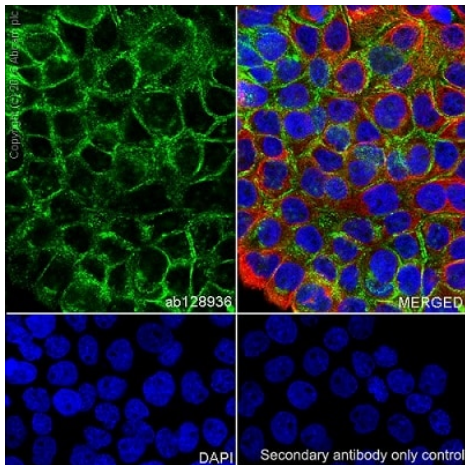
Function	Cell surface proteoglycan that bears both heparan sulfate and chondroitin sulfate and that links the cytoskeleton to the interstitial matrix.
Sequence similarities	Belongs to the syndecan proteoglycan family.
Cellular localization	Membrane.

## Images



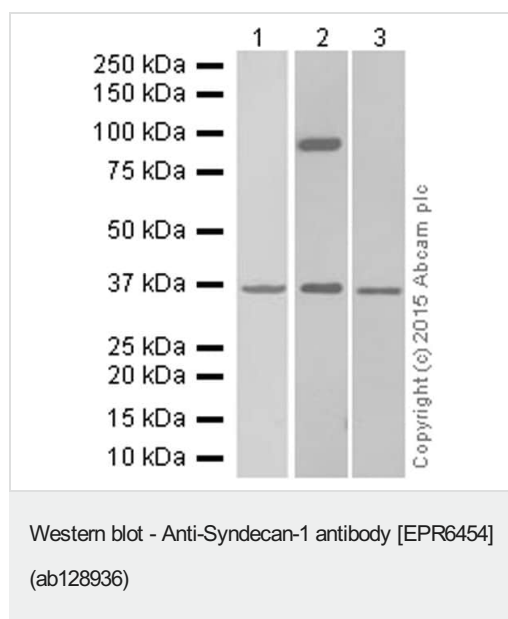
Immunohistochemical staining of paraffin embedded human colon with purified ab128936 at a working dilution of 1/8000. The secondary antibody used is **ab97051**, a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] (ab128936)



Immunocytochemistry analysis of A431 cell line labeling Syndecan-1 with Ab128936 at 2.5 µg/ml (top left). Cells were fixed with 4% paraformaldehyde, permeabilized with 0.1% tritonX-100. DAPI nuclear stain. **ab150077**, AlexaFluor® 488 Goat anti-Rabbit secondary antibody was used at 2 µg/ml. Confocal image showing membranous staining on A431 cell line.

Immunocytochemistry/ Immunofluorescence - Anti-Syndecan-1 antibody [EPR6454] (ab128936)



**All lanes** : Anti-Syndecan-1 antibody [EPR6454] (ab128936) at 1/5000 dilution (purified)

**Lane 1** : HeLa whole cell lysate

**Lane 2** : PC-12 whole cell lysate

**Lane 3** : Mouse heart tissue lysate

Lysates/proteins at 20 µg per lane.

### Secondary

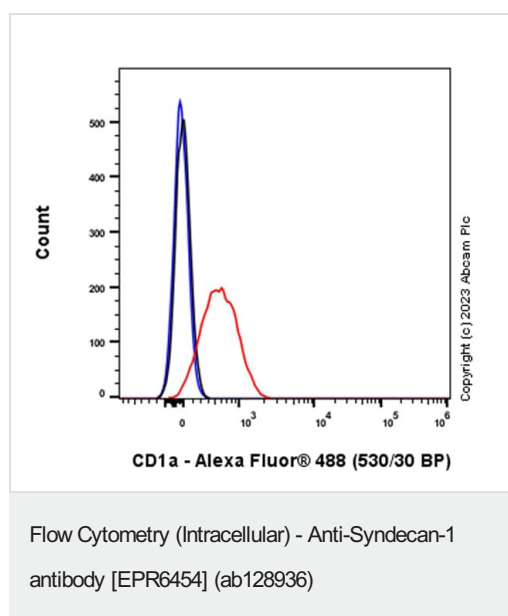
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 32 kDa

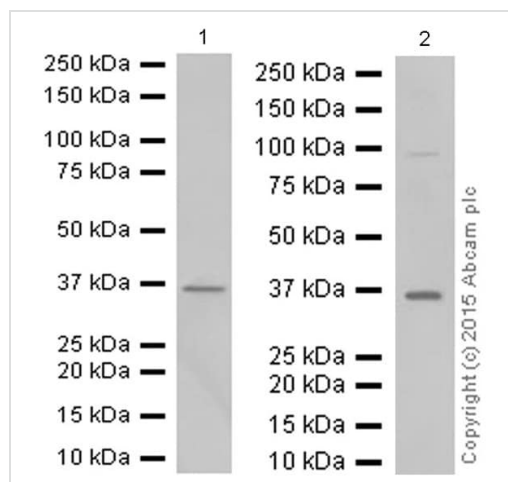
**Observed band size:** 100,35 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa (human cervical adenocarcinoma epithelial cell) labelling -Syndecan-1 with ab128936 at 1/50 dilution (1 µg) (Red) compared with a Rabbit monoclonal IgG ([ab172730](#)) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, [ab150081](#)) at 1/5000 dilution was used as the secondary antibody.



Western blot - Anti-Syndecan-1 antibody [EPR6454]  
(ab128936)

**All lanes** : Anti-Syndecan-1 antibody [EPR6454] (ab128936) at 1/10000 dilution (purified)

**Lane 1** : Ramos whole cell lysate

**Lane 2** : Raji whole cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

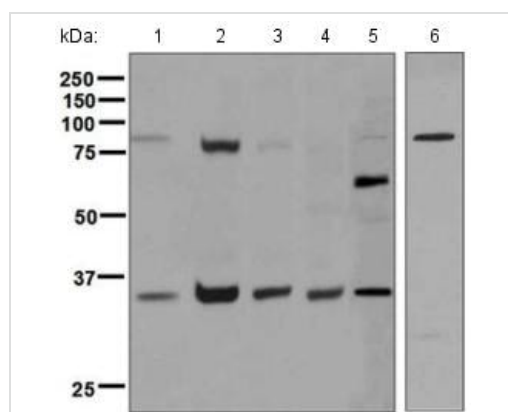
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 32 kDa

**Observed band size:** 100,35 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-Syndecan-1 antibody [EPR6454]  
(ab128936)

**Lanes 1-5** : Anti-Syndecan-1 antibody [EPR6454] (ab128936) at 1/1000 dilution (Unpurified)

**Lane 6** : Anti-Syndecan-1 antibody [EPR6454] (ab128936) at 1/1000 dilution

**Lane 1** : Ramos cell lysate

**Lane 2** : Raji cell lysate

**Lane 3** : HeLa cell lysate

**Lane 4** : BxPC-3 cell lysate

**Lane 5** : Fetal kidney lysate

**Lane 6** : PC12 cell lysate

Lysates/proteins at 10 µg per lane.

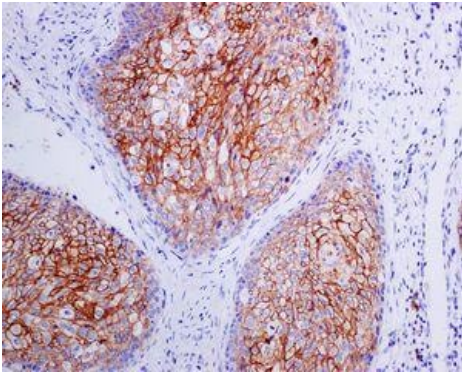
#### Secondary

**All lanes** : Standard HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 32 kDa

**Observed band size:** 35 kDa

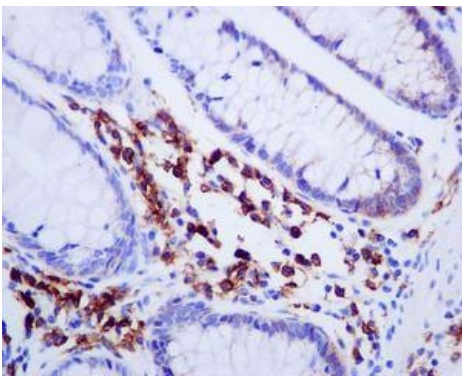
**Additional bands at:** 65-100 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] (ab128936)

Unpurified ab128936, at a 1/500 dilution, staining Syndecan in paraffin-embedded Human cervical carcinoma tissue by immunohistochemistry.

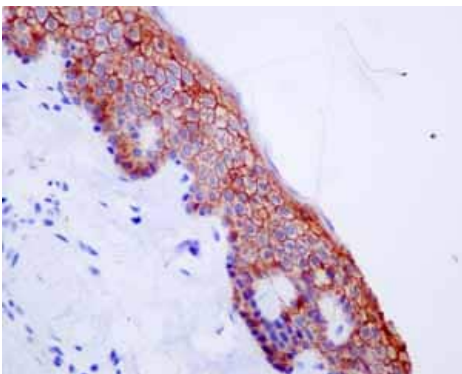
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] (ab128936)

Unpurified ab128936, at a 1/500 dilution, staining Syndecan in paraffin-embedded Human colon tissue by immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

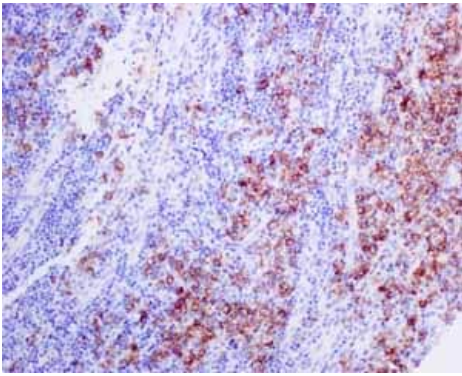


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] (ab128936)

Unpurified ab128936 showing positive staining in Normal human skin tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

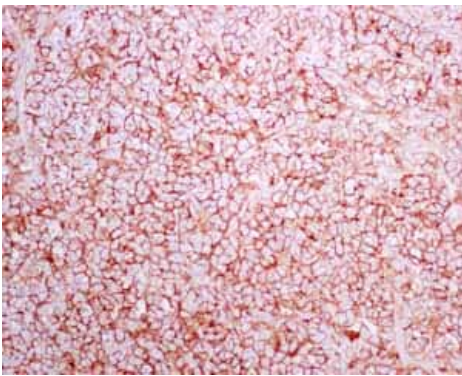




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] (ab128936)

Unpurified ab128936 showing positive staining in normal human tonsil tissue.

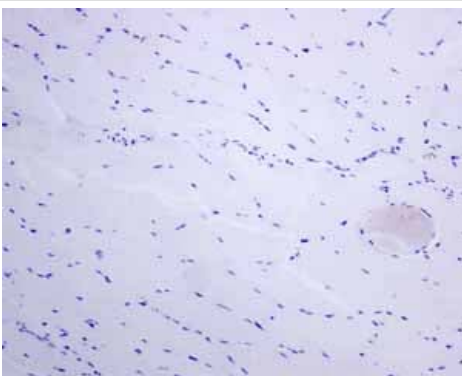
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] (ab128936)

Unpurified ab128936 showing positive staining in human Plasmacytoma tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] (ab128936)

Unpurified ab128936 showing negative staining in human Skeletal muscle tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Syndecan-1 antibody [EPR6454] (ab128936)

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

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