

# Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free ab216458

Recombinant RabMAb

10 Images

### Overview

<b>Product name</b>	Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free
<b>Description</b>	Rabbit monoclonal [EPR6454] to Syndecan-1 - Low endotoxin, Azide free
<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), IHC-P, ICC/IF, WB
<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>ab216458 is the carrier-free version of <a href="#">ab128936</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <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>

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

Our **Low endotoxin, azide-free formats** have low endotoxin level ( $\leq 1$  EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

## Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6454
Isotype	IgG

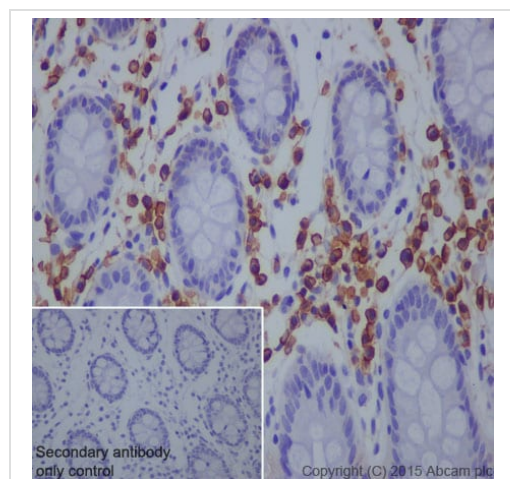
## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab216458 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)		Use at an assay dependent concentration. <b>ab199376</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.

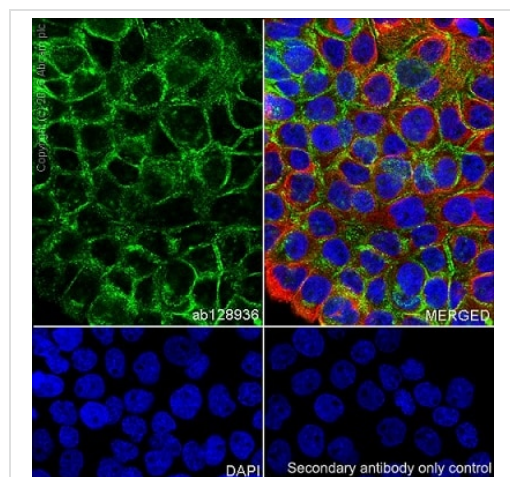
## Target

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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free (ab216458)

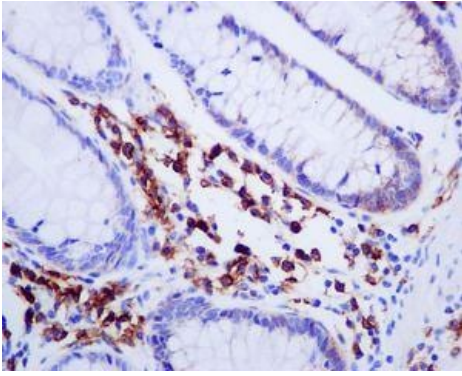
Immunohistochemical staining of paraffin embedded human colon with purified **ab128936** at a working dilution of 1/8000. The secondary antibody used is **ab97051**, a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using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



Immunocytochemistry/ Immunofluorescence - Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free (ab216458)

Immunocytochemistry analysis of A431 cell line labeling Syndecan-1 with Ab195889 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128936**).

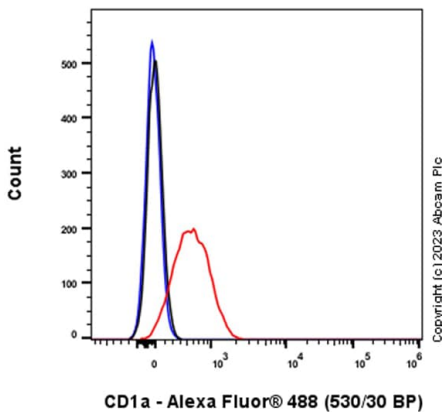


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free (ab216458)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128936**).

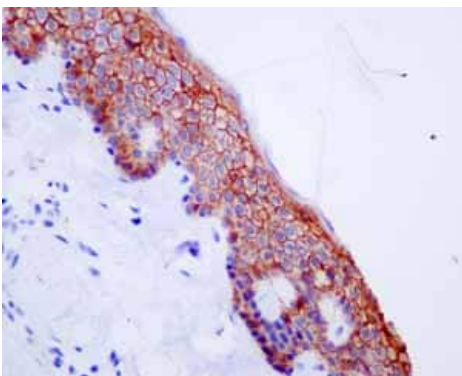
Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free (ab216458)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128936**).

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 ug) (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.

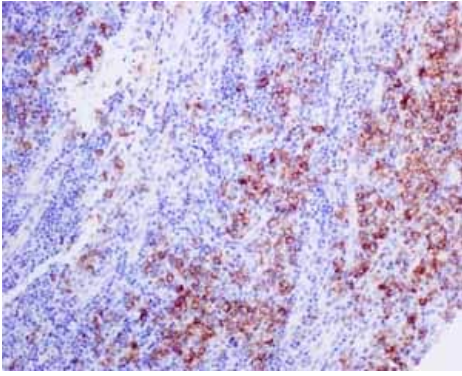


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free (ab216458)

Unpurified **ab128936** showing positive staining in Normal human skin tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128936**).

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

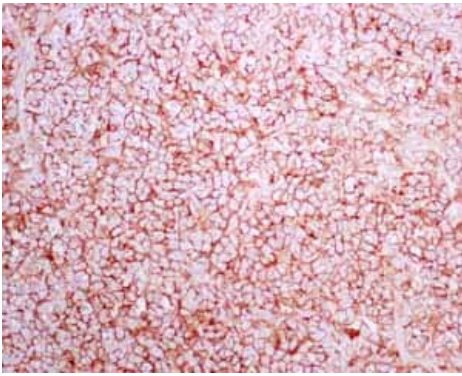


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free (ab216458)

Unpurified **ab128936** showing positive staining in normal human tonsil tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128936**).

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

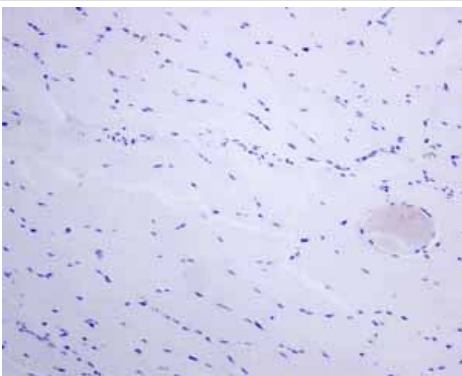


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free (ab216458)

Unpurified **ab128936** showing positive staining in human Plasmacytoma tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128936**).

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

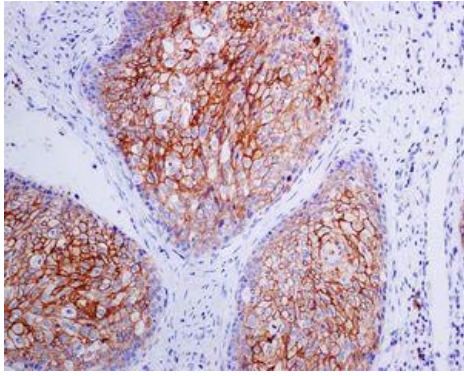


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free (ab216458)

Unpurified **ab128936** showing negative staining in human Skeletal muscle tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128936**).

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free (ab216458)

This IHC data was generated using the same anti-Syndecan 1 antibody clone, EPR6454, in a different buffer formulation (cat# **ab128936**).

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

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

#### Why choose a recombinant antibody?



Anti-Syndecan-1 antibody [EPR6454] - Low endotoxin, Azide free (ab216458)

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

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