### Product Details

**Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
<td></td>
<td></td>
<td>Neat</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td>1/100 - 1/500</td>
</tr>
<tr>
<td>Immunohistology - Paraffin (1)</td>
<td></td>
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<td></td>
<td>1/100</td>
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<tr>
<td>ELISA</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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<tr>
<td>Immunofluorescence</td>
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<tr>
<td>Functional Assays (2)</td>
<td></td>
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</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

1. **This product requires heat pre-treatment. Sodium citrate buffer pH6.0 is recommended for this purpose.**
2. **This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays. Bio-Rad recommend the use of EQU003 for this purpose.**

<table>
<thead>
<tr>
<th>Target Species</th>
<th>Human</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Form</td>
<td>Purified IgG - liquid</td>
</tr>
<tr>
<td>Preparation</td>
<td>Purified IgG prepared by ion exchange chromatography</td>
</tr>
<tr>
<td>Buffer Solution</td>
<td>Phosphate buffered saline</td>
</tr>
<tr>
<td>Preservative Stabilisers</td>
<td>0.09% Sodium Azide</td>
</tr>
<tr>
<td>Approx. Protein</td>
<td>IgG concentration 0.1 mg/ml</td>
</tr>
</tbody>
</table>
Concentrations

Immunogen
U266 cell line.

External Database Links

UniProt: P18827 Related reagents

Entrez Gene: 6382 SDC1 Related reagents

Synonyms
SDC

Fusion Partners
Spleen cells from immunized Balb/c (Iffa Credo) mice were fused with cells of the mouse X63/Ag.8653 myeloma cell line.

Specificity

Mouse anti human CD138 antibody, clone B-A38 recognizes human CD138, also known as Syndecan-1 (SDC-1). CD138 is a member of the transmembrane heparan sulfate proteoglycan family (O'Connell et al. 2004, Sanderson et al. 2008). It is composed of a core protein (comprising 3 domains; a short cytoplasmic domain, a transmembrane domain, and a long extracellular domain) and covalently attached heparan sulfate chains (Sanderson et al. 2008).

Syndecan-1 is expressed on the surface of plasma cells within the hematopoietic system and on the surface of mature epithelial cells (O'Connell et al. 2004). It acts as an extracellular matrix receptor, involved in many cellular functions, including cell binding, cell signaling and cytoskeletal organization through cell-cell adhesion and cell-matrix adhesion (Sanderson et al. 2008).

Flow Cytometry

Use 10ul of the suggested working dilution to label $10^6$ cells in 100ul.

Histology Positive Control Tissue
Bone Marrow

References


Further Reading


**Storage**
Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**
18 months from date of despatch.

**Health And Safety Information**

**Regulatory**
For research purposes only

**Related Products**

**Recommended Secondary Antibodies**
- Goat Anti Mouse IgG (STAR76...) **RPE**
- Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos., HRP**
- Goat Anti Mouse IgG (H/L) (STAR117...) **Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP**
- Rabbit Anti Mouse IgG (STAR9...) **FITC**
- Goat Anti Mouse IgG (STAR77...) **HRP**
- Rabbit Anti Mouse IgG (STAR12...) **RPE**
- Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**
- Rabbit Anti Mouse IgG (STAR8...) **DyLight®800**
- Goat Anti Mouse IgG (STAR70...) **FITC**
- Rabbit Anti Mouse IgG (STAR13...) **HRP**
- Human Anti Mouse IgG1 (HCA036...) **HRP**

**Recommended Negative Controls**
- MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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