

## ARG54219 anti-CD138 / Syndecan 1 antibody [B-A38] (PE)

Package: 50 tests

Store at: 4°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | PE-conjugated Mouse Monoclonal antibody [B-A38] recognizes CD138 / Syndecan 1   |
| Tested Reactivity   | Hu  |
| Tested Application  | FACS  |
| Specificity         | The antibody BA38 recognizes CD138 (syndecan 1), a heparan sulfate proteoglycan protein expressed mainly in the epidermis and plasma cells, but also in growth factor stimulated lymphocytes. The MWs of the glycosylated CD138 were variety, and MW of the non-glycosylated core protein (dimmer form) was around 60-80 kda. |
| Host                | Mouse   |
| Clonality           | Monoclonal  |
| Clone               | B-A38   |
| Isotype             | IgG1  |
| Target Name         | CD138 / Syndecan 1  |
| Species             | Human   |
| Immunogen           | U266 human peripheral blood myeloma cell line   |
| Conjugation         | PE  |
| Alternate Names     | CD antigen CD138; syndecan; CD138; SDC; Syndecan-1; SYND1   |

### Application Instructions

|                   |  |                               |
|-------------------|--|-------------------------------|
| Application table | Application  | Dilution                      |
|                   | FACS   | 20 µl / 10 <sup>6</sup> cells |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                               |

### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification Note   | The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.              |
| Buffer              | PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA  |
| Preservative        | 15 mM Sodium azide   |
| Stabilizer          | 0.2% (w/v) high-grade protease free BSA  |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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|                |   |
|----------------|---|
| Database links | <a href="#">GeneID: 6382 Human</a><br><a href="#">Swiss-port # P18827 Human</a>   |
| Gene Symbol    | SDC1  |
| Gene Full Name | syndecan 1  |
| Background     | CD138 (syndecan 1) is a transmembrane proteoglycan that can bind a variety of cytokines and modulate their activity, as well as the activity of extracellular matrix components and influence many developmental processes. CD138 is expressed mainly in differentiating keratinocytes and is transiently upregulated in all layers of the epidermis upon tissue injury. It is also highly expressed on plasma cells and can be detected even on fibroblasts, vascular smooth muscle cells and endothelial cells. Up-regulation and down-regulation of CD138 on the cell surface often correlates with the gain of cancerous characteristics. Serum levels of the shedded soluble sCD138 are used as a prognostic factor of cancerogenesis. |
| Function       | Cell surface proteoglycan that bears both heparan sulfate and chondroitin sulfate and that links the cytoskeleton to the interstitial matrix. [UniProt]   |
| Research Area  | Cancer antibody; Developmental Biology antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody  |
| Calculated Mw  | 32 kDa  |
| PTM            | Shedding is enhanced by a number of factors such as heparanase, thrombin or EGF. Also by stress and wound healing. PMA-mediated shedding is inhibited by TIMP3.   |