Intended Use

For In Vitro Diagnostic use.

This product is intended for selective recovery/enrichment of cells expressing the CD138 cell surface antigen in biological fluids and tissue culture.

Description

Anti-CD138 (B-A38) particles are non-sterile submicron, uniform diameter, superparamagnetic beads coated with mouse monoclonal Syndecan-1 (B-A38) antibody. The CD138 antibody was generated against human Syndecan-1 of human origin. Syndecan-1, also designated CD138 is a type 1 integral membrane proteoglycan, consisting of 310 amino acids, that contains both chondroitin sulfate and heparan sulfate groups. The core protein of Syndecan-1 consists of 3 domains, an ectodomain (extracellular domain), transmembrane domain and cytoplasmic domain. The antibody recognizes the ectodomain consisting of 252 amino acids with 3 highly conserved serine-glycine sites for heparan sulfate attachment at amino acids 37, 24 and 47 near the N terminal of the core protein, and 2 highly conserved serine-glycine sites for chondroitin sulfate attachment at amino acids 210 and 220, adjacent to the cell membrane. Cell capture is achieved by paramagnetic labeling with CD138 antibody of cells expressing CD138 in biological specimens and culture.

Supplied As

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Contains</th>
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<tbody>
<tr>
<td>R2140-1</td>
<td>0.5 mL</td>
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0.5 mg of Anti-CD138 (B-A38) coupled paramagnetic particles in 0.5 mL of 0.02 M phosphate buffer pH 7.4, 0.15 M NaCl, 1.0% BSA, 0.09% sodium azide.

Storage

This product is stable when stored at 2 - 8°C. DO NOT FREEZE. DO NOT STORE AT ROOM TEMPERATURE. Refer to product label for expiration date.

Other Information

Resuspend particles prior to each use by inversion or gentle pulse vortexing several times. Avoid causing foam when resuspending particles. Generally, 7 µL to 20 µL of antibody will be sufficient to capture cells in specimen volumes up to 1 mL, using a buffered cell suspension.

WARNING

- This material’s chemical, physical and toxicological properties have not been thoroughly investigated. Contains sodium azide as a preservative. Although, the quantity of sodium azide (0.09%) is very small, measures should be taken to avoid skin and eye contact, inhalation and ingestion.
- Sodium azide (NaN₃) may react with lead and copper plumbing to form potentially explosive metal oxides.
- Upon disposal, flush with a large volume of water to prevent azide build-up.
- Dispose of biohazardous waste as described by local, state and federal regulations.
References


