Technical Data Sheet

PE Mouse Anti-Human CD147

Product Information

Material Number: 562552
Alternate Name: BSG; Basigin; BASI; Neurothelin; 5F7; EMMPRIN; M6; OK; TCSF
Size: 50 tests
Vol. per Test: 5 µl
Clone: HIM6
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Workshop: VI NL109
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The HIM6 monoclonal antibody specifically binds to CD147 which is encoded by BSG. CD147 is a type I transmembrane glycoprotein (30-50 kDa) of the immunoglobulin super-gene family. Neurothelin, a blood-brain barrier-specific molecule, was clustered as CD147 in the Sixth Human Leukocyte Differentiation Antigen (HLDA) workshop. It bears homology with mouse gp42 or basigin, human "M6" or "EMMPRIN", rat OX-47 or CD-9, and avian HT7 or 5A11. CD147 is also known as Tumor cell-derived collagenase stimulatory factor (TCSF). CD147 is a molecule that is broadly expressed on cells of hematopoietic and non-hematopoietic origin. Its expression on specific cell types may be regulated by cytokines. CD147 plays a role in embryonal blood-brain barrier development and a role in integrin-mediated adhesion in brain endothelia.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Flow cytometry Routinely Tested

Suggested Companion Products

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<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>554680</td>
<td>PE Mouse IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MOPC-21</td>
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<td>555749</td>
<td>PE Mouse IgG1, κ Isotype Control</td>
<td>100 tests</td>
<td>MOPC-21</td>
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<td>555899</td>
<td>Lysing Buffer</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References


