Technical Data Sheet

PE Mouse Anti-Human CD118 (LIFR)

Product Information

Material Number: 566384
Alternate Name: LIFR; LIF-R; SWS; SJS2; STWS
Size: 50 µg
Concentration: 0.2 mg/ml
Clone: 12D3
Immunogen: Human LIFR Recombinant Protein
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 12D3 monoclonal antibody specifically recognizes CD118 which is also known as the Leukemia Inhibitory Factor Receptor (LIF Receptor or LIFR). CD118 is a type I transmembrane glycoprotein that is encoded by LIFR (leukemia inhibitory factor receptor alpha) and belongs to the type I cytokine receptor family. CD118 associates with CD130 (gp130) to form the functional LIF Receptor. The CD118/CD130 complex is expressed by a wide variety of cells including stem cells, hepatocytes, adipocytes, myoblasts, neural and glial cells. LIF and Oncostatin M can both act through the CD118/CD130 heterodimer to regulate cellular differentiation, survival and proliferation in developing and adult individuals.

Flow cytometric analysis of CD118 (LIFR) expression on human JAR cells. Cells from the JAR (Choriocarcinoma, ATCC HTB-144) cell line were stained with 1 µg of either PE Mouse IgG1, κ Isotype Control (Cat. No.554680; dotted line histogram) or PE Anti-Human CD118 (LIFR) antibody (Cat. No. 566384; solid line histogram). BD Via-Probe™ Cell Viability 7-AAD Solution (Cat. No. 555815/555816) was added to cells right before analysis. The histogram showing CD118 (LIFR) expression (or Ig Isotype control staining) were derived from 7-AAD negative-gated events with the forward and side light-scatter characteristics of viable cells. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer System. Data shown on this Technical Data Sheet are not lot specific.

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

Application

Flow cytometry Routinely Tested

Suggested Companion Products

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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<td>Cell Viability Solution</td>
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<td>555816</td>
<td>Cell Viability Solution</td>
<td>100 Tests</td>
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Product Notices
1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. 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.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References
Bitard J, Daburon S, Duplomb L, et al. Mutations in the immunoglobulin-like domain of gp190, the leukemia inhibitory factor (LIF) receptor, increase or decrease its affinity for LIF. J Biol Chem. 2003; 278(18):16253-61. (Clone-specific: Western blot)