

## DESCRIPTION

|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human   |
| <b>Specificity</b>        | Detects human FoxJ1 in direct ELISAs.   |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2B</sub> Clone # 407003   |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human FoxJ1<br>Lys306-Leu421<br>Accession # Q92949.3  |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

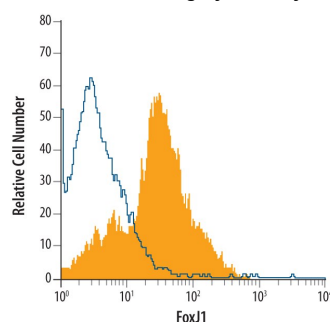
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|   | <b>Recommended Concentration</b>   | <b>Sample</b> |
|---|--|---------------|
| <b>Intracellular Staining by Flow Cytometry</b> | 2.5 µg/10 <sup>6</sup> cells   | See Below     |
| <b>CyTOF-ready</b>                              | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. |               |

## DATA

### Intracellular Staining by Flow Cytometry



**Detection of FoxJ1 in HEK293 Human Cell Line by Flow Cytometry.** HEK293 human embryonic kidney cell line was stained with Rat Anti-Human FoxJ1 Monoclonal Antibody (Catalog # MAB3619, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

## PREPARATION AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Reconstitute at 0.5 mg/mL in sterile PBS.  |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

## BACKGROUND

Human FoxJ1 (also HNF-4) is a 45 kDa, class 1 member of the HNF-3/fork-head gene family of transcription factors. It is 421 amino acids (aa) in length and contains one fork-head DNA binding domain (aa 120-210). The presence of basic residues in the fork-head domain makes FoxJ1 a class 1 Fox protein. FoxJ1 induces cilia in lung and oviduct and maintains T cell tolerance to self-antigens. It is known to modulate NFκB activity. Over the range of amino acids used for immunization, human FoxJ1 is 89% aa identical to dog FoxJ1 and 87% aa identical to both mouse and rat FoxJ1.