Technical Data Sheet

Purified Mouse Anti-Human E2A-Pbx1

**Product Information**

- **Material Number:** 556021
- **Size:** 0.1 mg
- **Concentration:** 0.5 mg/ml
- **Clone:** G289-1
- **Isotype:** Mouse IgG1, κ
- **Reactivity:** QC Testing: Human
- **Workshop:** NA
- **Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

Reacts with E2A-Pbx1, a chimeric gene product of approximately 90 kDa which is the result of t(1,19) (q23;p13.3) chromosomal translocation. Sequences of Pbx1 from chromosome 1 are juxtaposed adjacent to sequences of the E2A gene on chromosome 19. The translocation results in the transcription of a unique chimeric protein E2A-Pbx1 with an amino acid sequences not present on E2A or Pbx alone. E2A-Pbx1 is found only in cells with the t(1,19) translocation. It is detectable in the nucleus of 697 cell line (a pre-B cell line). E2A-Pbx1 is considered to be an oncoprotein, however, the oncogenic mechanism has not been fully elucidated.

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

**Application Notes**

**Application**

- Intracellular staining (flow cytometry) Routinely Tested

**Suggested Companion Products**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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</thead>
<tbody>
<tr>
<td>555746</td>
<td>Purified Mouse IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MOPC-21</td>
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<tr>
<td>555988</td>
<td>FITC Goat Anti-Mouse IgG/IgM</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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**Profile of permeabilized 697 (pre-B cell leukemia cell line) fixed with BD FACS Lysing solution (Cat. No. 349202) and permeabilized by FACS Permeabilizing Solution (Cat. No. 340457) analyzed on a FACScan (BDIS, San Jose, CA).**
Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
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.

References


Kamps MP, Murre C, Sun XH, Baltimore D. A new homeobox gene contributes the DNA binding domain of the t(1;19) translocation protein in pre-B ALL. Cell. 1990; 60(4):547-557. (Biology)