

## PerCP/Cyanine 5.5 Anti-Human Ki-67 Antibody[3B7]

Catalog Number: AN00540J

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

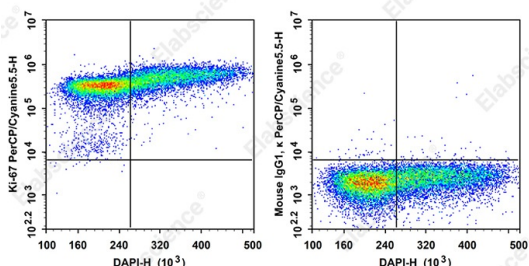
|                         |   |
|-------------------------|---|
| Reactivity              | Human   |
| Host                    | Mouse   |
| Isotype                 | Mouse IgG1, κ   |
| Clone No.               | 3B7   |
| Isotype Control         | PerCP/Cyanine5.5 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792J]  |
| Conjugation             | PerCP/Cyanine 5.5   |
| Conjugation Information | PerCP/Cyanine 5.5 is designed to be excited by the blue laser (488 nm) and detected using an optical filter centered near 675 nm (e.g., a 690/50 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.   |

### Applications

### Recommended usage

|     |   |
|-----|---|
| FCM | Each lot of this antibody is quality control tested by flow cytometric analysis. <b>The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. |
|-----|---|

### Data



Staining of proliferating Human MOLT-4 cells with DAPI Reagent and PerCP/Cyanine 5.5 Anti-Human Ki-67 Antibody[3B7] (left) or PerCP/Cyanine 5.5 Mouse IgG1, κ Isotype Control (right). Total viable cells were used for analysis.

### Preparation & Storage

|          |   |
|----------|---|
| Storage  | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze. |
| Shipping | Ice bag   |

### Antigen Information

|                 |               |
|-----------------|---------------|
| Alternate Names | Antigen Ki-67 |
| Uniprot ID      | P46013        |
| Gene ID         | 4288          |

### For Research Use Only

## Background

Antigen Ki-67 is a nuclear protein expressed as two isoforms with molecular weights of 395 and 345 kD. Both isoforms contain one forkhead-associated domain and 16 concatenated "Ki-67 repeats," each containing the epitope recognized by the mAb Ki-67. The antigen Ki-67 interacts with Hklp2, hNIFK, and chromobox protein homolog 1, 3, and 5. Ki-67 is required for cell proliferation and its expression is restricted to the phases G1, S, G2, and M of the cell cycle. This characteristic makes Ki-67 an excellent marker for proliferating cells and is commonly used as one of the prognostic factors in cancer studies. Ki-67 has also been used to study myocyte proliferation after myocardial infarction as well as lymphocyte proliferation during infection, and has been used in neurons of patients with different neuropathologies.