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Human Transitional/Immature B cells Panel

Catalog No.: RK40021

Basic Information

Observed MW

Calculated MW

Category
Primary antibody

Applications
FC

Cross-Reactivity
Human

Background

The 7-fluorescence Human Transitional/Immature B cells Panel has been designed for identify and phenotype B cells in Human blood or tissue samples. ABflo® multi-fluorescence panel RK40021 covers the core CD markers of CD45, CD19, CD10, CD38, CD21 and IgD. Our plots showed clear subgroups of CD10+CD38+IgD+ transitional B cells, CD10-CD38-IgD+ unswitched B cells, CD10-CD38-IgD- memory B cells, CD10-CD38highIgD- plasmablasts, CD10-CD38-CD27-IgD+ naïve, CD10-CD38-CD27+IgD+ marginal zone B cells and AM/TLM/IM/RM Memory B cells (cite figures).

Recommended Dilutions

FC	5 µl per 10^6 cells in 100 µl volume

Immunogen Information

Gene ID

Swiss Prot

Immunogen
This information is considered to be commercially sensitive.

Synonyms

Contact

400-999-6126

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Product Information

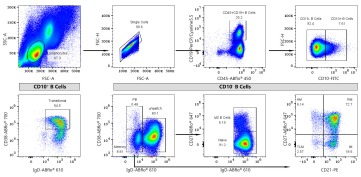
Source
Rabbit

Isotype
IgG

Purification

Storage
Store at 2-8℃. Avoid freeze.
Buffer: PBS with 0.09% Sodium azide,0.2% BSA,pH7.3.

Validation Data



Multicolor flow cytometry panel to identify Human B cell subsets. Human PBMC were surface stained with ABflo® 450 Rabbit anti-Human CD45 mAb (A25195,5 µL/Test), PerCP/Cyanine5.5 Rabbit anti-Human/Monkey CD19 mAb (A26823,5 µL/Test), FITC Rabbit anti-Human CD10 mAb (A26865,5 µL/Test), ABflo® 610 Rabbit anti-Human IgD mAb (A26481,5 µL/Test), ABflo® 700 Rabbit anti-Human CD38 mAb (A27140,5 µL/Test), PE Rabbit anti-Human CR2/CD21 mAb (A25702,5 µL/Test), ABflo® 647 Rabbit anti-Human CD27 mAb (A22064,5 µL/Test). All antibodies are validated for Flow cytometry. B cells are defined as CD45+CD19+. A major B cell subset discrimination is based on CD10 and, therefore, B cells were divided into CD10- and CD10+ subpopulations. CD10+ B cells can be further refined into transitional B cells (CD38+IgD+); CD10- B cells comprise IgD+ unswitched B cells (CD38-IgD+), memory B cells (CD38-IgD-) and plasmablasts (PB; CD38highIgD-). The unswitched IgD+ fraction can be further divided in naïve (CD27-IgD+) and marginal zone (MZ) B cells (CD27+IgD+); Memory B cells can be further divided in activated memory (AM), tissue-like memory (TLM), intermediate memory (IM) and resting memory(RM) by expression patterns of CD21 and CD27.

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