

PE anti-human CD45RB Recombinant Antibody

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| Catalog# / Size | 377703 / 25 tests 377704 / 100 tests |
| Clone | QA20A68 |
| Regulatory Status | RUO |
| Isotype | Mouse IgG1, κ |
| Description | CD45RB is a 180-240 kD single chain type I membrane glycoprotein. It is an exon 5 splice variant of the tyrosine phosphatase CD45. The CD45RB isoform is expressed on thymocytes, T cell subsets, B cells, monocytes/macrophages, granulocytes, and dendritic cells. CD45RB enhances both T cell receptor and B cell receptor signaling mediated activation. CD45RB negatively regulates protein kinase activity, and negatively regulates cytokine-mediated signaling pathway. |

Product Details

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| Verified Reactivity | Human |
| Antibody Type | Recombinant |
| Host Species | Mouse |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.) |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze. |
| Application | FC - Quality tested |
| Recommended Usage | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. |
| Excitation Laser | Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm) |
| Application Notes | Clone QA20A68 can completely block the binding of MEM-55 to target cells. |
| RRID | AB_3675094 (BioLegend Cat. No. 377703) AB_3675094 (BioLegend Cat. No. 377704) |

Antigen Details

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| Structure | Tyrosine phosphatases, type I transmembrane, 180-240 kD (exon 5 splicing of CD45 gene) |
| Distribution | Highly expressed in bone marrow, colon, lung, and most normal epithelial cells. Also highly expressed on carcinomas of gastrointestinal origin. Expressed during early erythropoiesis. |
| Function | Enhances TCR and BCR signaling. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. |

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| Interaction | Human |
| Ligand/Receptor | Galectin-1, CD2, CD3, CD4 |
| Cell Type | B cells, Dendritic cells, Granulocytes, Macrophages, Monocytes, T cells, Thymocytes, Tregs |
| Biology Area | Cell Biology, Immunology, Inhibitory Molecules, Neuroscience, Neuroscience Cell Markers |
| Molecular Family | CD Molecules |

Antigen References

1. Thomas ML. 1989. *Annu Rev Immunol.* 7:339-69.
2. Trowbridge IS, et al. 1994. *Annu Rev Immunol.* 12:85-116.

Gene ID [5788](#)

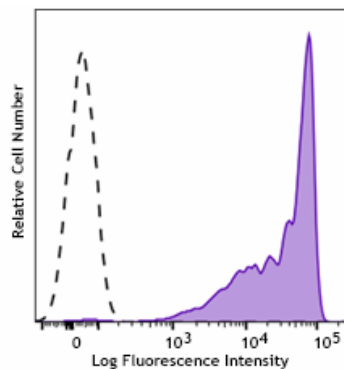
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD45RB Recombinant Antibody, PE anti-human CD45RB Recombinant Antibody, FITC anti-human CD45RB Recombinant Antibody, Alexa Fluor® 594 anti-human CD45RB Recombinant Antibody, APC anti-human CD45RB Recombinant Antibody, Spark PLUS UV395™ anti-human CD45RB Recombinant Antibody, Spark Red™ 718 anti-human CD45RB Recombinant Antibody, PerCP/Fire™ 806 anti-human CD45RB Recombinant Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD45RB recombinant (clone QA20A68) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

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