

Spark PLUS UV395™ anti-human CD45RB Recombinant Antibody

Catalog# / Size	377709 / 25 tests 377710 / 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

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 Spark PLUS UV395™ 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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 nm)
Application Notes	Clone QA20A68 can completely block the binding of MEM-55 to target cells.
RRID	AB_3683411 (BioLegend Cat. No. 377709) AB_3683411 (BioLegend Cat. No. 377710)

Antigen Details

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.

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](#)

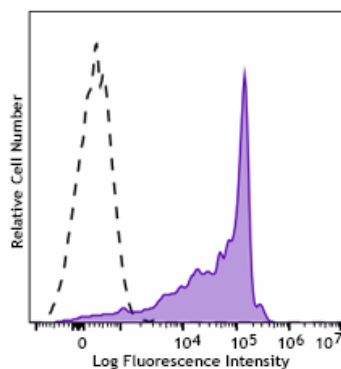
Related Protocols

- [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) Spark PLUS UV395™ (filled histogram) or mouse IgG1, κ Spark PLUS UV395™ isotype control (open histogram)

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