

Alexa Fluor® 594 anti-human CD45RB Recombinant Antibody

Catalog# / Size	377707 / 25 µg 377708 / 100 µg
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
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 594 under optimal conditions.
Concentration	0.5 mg/mL
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	IHC-P - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration of 10.0 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor® 594 has an excitation maximum of 590 nm, and a maximum emission of 617 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Application Notes	Clone QA20A68 can completely block the binding of MEM-55 to target cells.
RRID	AB_3683410 (BioLegend Cat. No. 377707) AB_3683410 (BioLegend Cat. No. 377708)

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. <i>Annu Rev Immunol.</i> 7:339-69. 2. Trowbridge IS, <i>et al.</i> 1994. <i>Annu Rev Immunol.</i> 12:85-116.

Gene ID [5788](#)

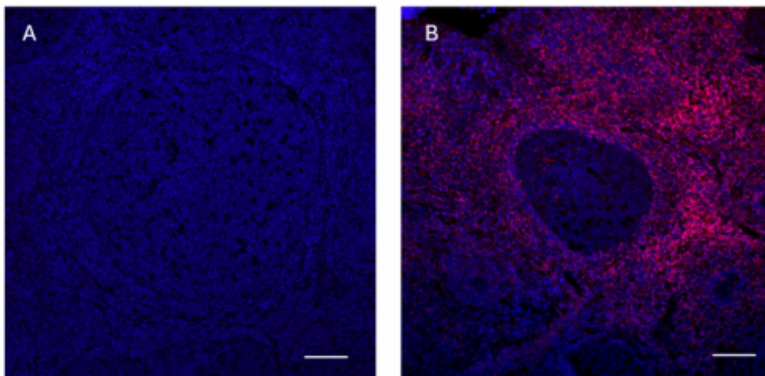
Related Protocols

- [Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

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



IHC staining of anti-human CD45RB (clone QA20A68) Alexa Fluor® 594 on formalin-fixed paraffin-embedded human tonsil tissue. Following antigen retrieval using 1X Citrate Buffer (Cat. No. 420902), the tissue was incubated with (panel B) or without (panel A) 10 µg/mL of anti-human CD45RB (clone QA20A68) Alexa Fluor® 594 (red) overnight at 4°C. Nuclei were counterstained with DAPI (blue). Images were captured with a 10X objective. Scale bar: 200 µm

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