

PE/Fire™ 640 anti-human CD21 Antibody

Catalog# / Size	354937 / 25 tests 354938 / 100 tests
Clone	Bu32
Regulatory Status	RUO
Workshop	V CD21.4, VI CD21.5
Other Names	Complement C3d receptor (C3dR), complement receptor 2 (CR2), Epstein-Barr virus receptor
Isotype	Mouse IgG1, κ
Description	CD21 is a 145 kD transmembrane protein also known as complement C3d receptor (C3dR), complement receptor 2 (CR2), and Epstein-Barr virus receptor. CD21 is expressed on B cells, follicular dendritic cells, subsets of normal thymocytes and T cells, and some epithelial cells. CD21 is the receptor used by Epstein-Barr virus to infect B cells and is also the complement receptor for C3d. CD21 has also been shown to interact with a number of proteins, including CD23, CD19, annexin VI, CD81, iC3b, complement receptor 1 (CR1, CD35), and interferon-alpha 1 (IFN-α1).

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus
Antibody Type	Monoclonal
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/Fire™ 640 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. * PE/Fire™ 640 has a maximum excitation of 566 nm and a maximum emission of 639 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections ⁴ .

Application References

(PubMed link indicates
BioLegend citation)

1. Björck P, *et al.* 1993. *Eur. J. Immunol.* 23:1771.
2. Frémeaux-Bacchi V, *et al.* 1996. *Eur. J. Immunol.* 26:1497.
3. Ling NR, *et al.* 1995. *Clin. Exp. Immunol.* 101:369.
4. Wang, C, *et al.* 2011. *BMC Immunol.* 12:53. (IHC)

RRID

AB_3720555 (BioLegend Cat. No. 354937)
AB_3720555 (BioLegend Cat. No. 354938)

Antigen Details

Structure	Transmembrane protein, multiple SUSHI domains, approximate molecular weight 145 kD
Distribution	Expressed on B cells, follicular dendritic cells, subsets of normal thymocytes and T cells, some epithelial cells
Function	Epstein-Barr virus receptor on B cells used for infection
Interaction	CD23, CD19, complement component 3, annexin VI, CD81, iC3b, complement receptor 1, interferon alpha 1
Ligand/Receptor	C3d, EBV
Cell Type	B cells, Dendritic cells, Epithelial cells, T cells, Thymocytes
Biology Area	Cell Biology, Complement, Costimulatory Molecules, Immunology, Innate Immunity, Neuroinflammation, Neuroscience
Molecular Family	CD Molecules
Antigen References	1. Kishimoto T, Eds. 1997. <i>Leukocyte Typing VI</i>. Garland Publishing Inc. 2. Moore MD, <i>et al.</i> 1987. <i>Proc. Natl. Acad. Sci. USA</i> 84:9194. 3. Szakonyi G, <i>et al.</i> 2001. <i>Science</i> 292:1725. 4. Weis JJ, <i>et al.</i> 1984. <i>Proc. Natl. Acad. Sci. USA</i> 81:881.
Gene ID	1380

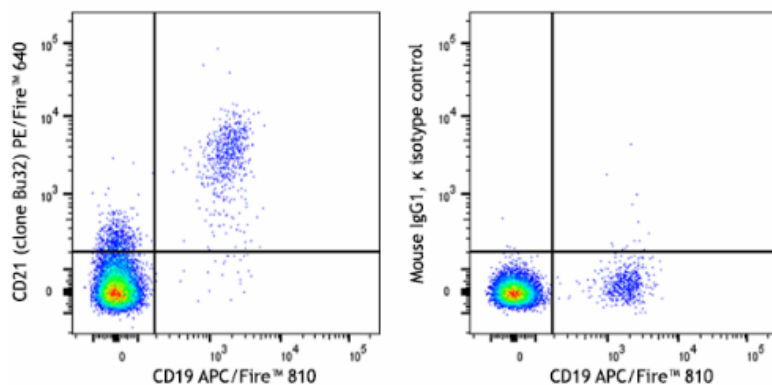
Related Protocols

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

Other Formats

APC/Cyanine7 anti-human CD21, TotalSeq™-D0181 anti-human CD21, TotalSeq™-Bn0181 anti-human CD21, Alexa Fluor® 594 anti-human CD21, APC/Fire™ 750 anti-human CD21, Spark Violet™ 423 anti-human CD21, PE anti-human CD21, PerCP/Cyanine5.5 anti-human CD21, GMP APC/Fire™ 750 anti-human CD21, Spark Red™ 718 anti-human CD21 (Flexi-Fluor™), Biotin anti-human CD21, Alexa Fluor® 700 anti-human CD21, TotalSeq™-A0181 anti-human CD21, TotalSeq™-C0181 anti-human CD21, Purified anti-human CD21, APC anti-human CD21, FITC anti-human CD21, PE/Fire™ 640 anti-human CD21, TotalSeq™-B0181 anti-human CD21 Antibody, PE/Cyanine7 anti-human CD21, Spark PLUS UV395™ anti-human CD21 (Flexi-Fluor™), PE/Dazzle™ 594 anti-human CD21

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD19 (clone HIB19) APC/Fire™ 810 and anti-human CD21 (clone Bu32) PE/Fire™ 640 (left) or mouse IgG1, κ PE/Fire™ 640 isotype control (right).

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