

CD171 Monoclonal Antibody (eBio5G3 (5G3)), Super Bright™ 600, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2a
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio5G3 (5G3)
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2762554

Applications	Tested Dilution	Publications
Western Blot (WB)	-	3 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	2 Publications

Product Specific Information

Description: The monoclonal antibody eBio5G3 recognizes CD171 also known as neural cell adhesion molecule L1. CD171 is a member of the Ig superfamily containing 6 extracellular Ig domains and five fibronectin type III-like repeats. CD171 has been shown to function as a cell adhesion molecule mediating homotypic and heterotypic cell-cell interactions in neuronal myelination, neurite outgrowth and regeneration. Expression of CD171 has been found on monocytes and mature monocytic-derived and follicular DCs, a minor subset of lymphocytes in addition to that found on neuronal tissue and some tumor cell lines. Expression of CD171 on tumors is thought to contribute to tumor progression. Epitope of eBio5G3 is in amino-terminal Ig-like domain.

Applications Reported: This eBio5G3 (5G3) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBio5G3 (5G3) antibody has been pre-titrated and tested by flow cytometric analysis of tumor cell line Panc-1. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

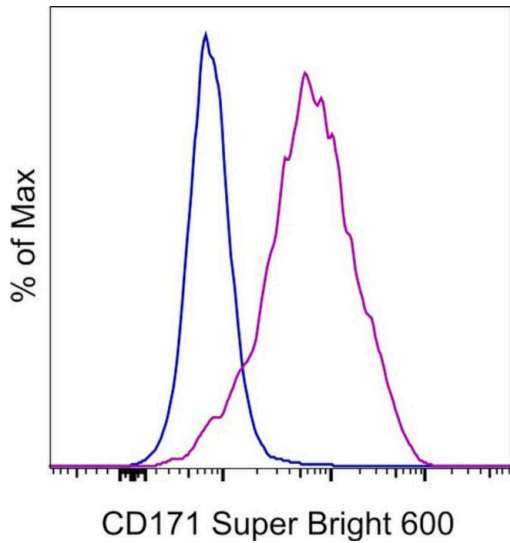
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 2-8°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorochrome performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD171 Monoclonal Antibody (eBio5G3 (5G3)), Super Bright™ 600, eBioscience™



CD171 Antibody (63-1719-42) in Flow
Staining of the Panc-1 cell line with Mouse IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4724-82) (blue histogram) or CD171 Monoclonal Antibody, Super Bright 600 (purple histogram). Total viable cells were used for analysis.

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Western Blot (3)

Scientific reports	Year 2022
Neuronally-enriched exosomal microRNA-27b mediates acute effects of ibuprofen on reward-related brain activity in healthy adults: a randomized, placebo-controlled, double-blind trial.	
"Published figure using CD171 monoclonal antibody (Product # 63-1719-42) in Western Blot"	
Authors: Burrows K, Figueroa-Hall LK, Kuplicki R, Stewart JL, Alarbi AM, Ramesh R, Savitz JB, Teague TK, Risbrough VB, Paulus MP	
Molecular psychiatry	Year 2021
Insulin receptor substrate in brain-enriched exosomes in subjects with major depression: on the path of creation of biosignatures of central insulin resistance.	
"Published figure using CD171 monoclonal antibody (Product # 63-1719-42) in Western Blot"	
Authors: Nasca C, Dobbin J, Bigio B, Watson K, de Angelis P, Kautz M, Cochran A, Mathé AA, Kocsis JH, Lee FS, Murrough JW, McEwen BS, Rasgon N	

[View more WB references on thermofisher.cn](#)

Immunohistochemistry (1)

Nature cell biology	Year 2018
Pericyte-like spreading by disseminated cancer cells activates YAP and MRTF for metastatic colonization.	
"Published figure using CD171 monoclonal antibody (Product # 63-1719-42) in Immunohistochemistry"	
Authors: Er EE, Valiente M, Ganesh K, Zou Y, Agrawal S, Hu J, Griscom B, Rosenblum M, Boire A, Brogi E, Giaccotti FG, Schachner M, Malladi S, Massagué J	

Immunohistochemistry (PFA fixed) (1)

Nature cell biology	Year 2018
Pericyte-like spreading by disseminated cancer cells activates YAP and MRTF for metastatic colonization.	
"Published figure using CD171 monoclonal antibody (Product # 63-1719-42) in Immunohistochemistry"	
Authors: Er EE, Valiente M, Ganesh K, Zou Y, Agrawal S, Hu J, Griscom B, Rosenblum M, Boire A, Brogi E, Giaccotti FG, Schachner M, Malladi S, Massagué J	

More applications with references on thermofisher.cn

Flow (2)

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