

CD171 Monoclonal Antibody (eBio5G3 (5G3)), eBioscience™

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Mouse
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	eBio5G3 (5G3)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_891383

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	4 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Flow Cytometry (Flow)	0.25 µg/test	2 Publications
Immunoprecipitation (IP)	Assay-Dependent	-

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, immunoprecipitation, immunoblotting (WB) under nonreducing conditions, and immunohistology staining of frozen tissue sections.

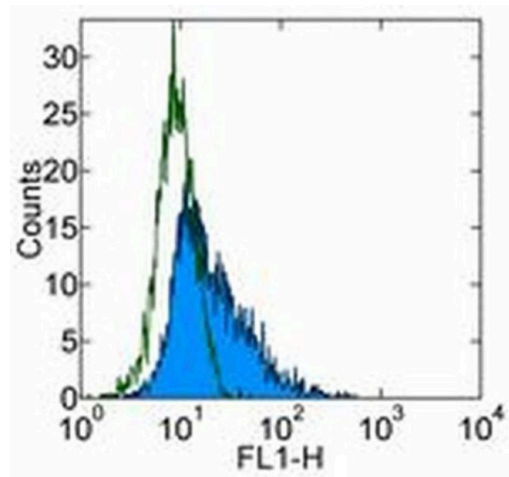
Applications Tested: This eBio5G3 (5G3) antibody has been tested by flow cytometric of tumor cell line Panc-1. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be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

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD171 Antibody (14-1719-82) in Flow
Staining of Panc-1 cell line with 0.125 µg of Mouse IgG2a kappa Isotype Control Purified (Product # 14-4724-82) (open histogram) or 0.125 µg of Anti-Human CD171 Purified (filled histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://thermofisher.com)

Western Blot (4)

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 # 14-1719-82) 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	
Journal of extracellular vesicles	Year 2022
Human neural cell type-specific extracellular vesicle proteome defines disease-related molecules associated with activated astrocytes in Alzheimer's disease brain.	
"Published figure using CD171 monoclonal antibody (Product # 14-1719-82) in Western Blot"	
Authors: You Y, Muraoka S, Jedrychowski MP, Hu J, McQuade AK, Young-Pearse T, Aslebagh R, Shaffer SA, Gygi SP, Blurton-Jones M, Poon WW, Ikezu T	

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

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 # 14-1719-82) in Immunohistochemistry"	
Authors: Er EE, Valiente M, Ganesh K, Zou Y, Agrawal S, Hu J, Griscom B, Rosenblum M, Boire A, Brogi E, Giacotti 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 # 14-1719-82) in Immunohistochemistry"	
Authors: Er EE, Valiente M, Ganesh K, Zou Y, Agrawal S, Hu J, Griscom B, Rosenblum M, Boire A, Brogi E, Giacotti FG, Schachner M, Malladi S, Massagué J	

More applications with references on thermofisher.com

Flow (2)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.