

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

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio5G3 (5G3)
Conjugate	Biotin
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, store in dark, DO NOT FREEZE!
RRID	AB_2043813

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	6 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Flow Cytometry (Flow)	0.5 µg/test	4 Publications
ELISA (ELISA)	-	3 Publications
Immunoprecipitation (IP)	-	4 Publications
Affinity Purification (AP)	-	1 Publication
In vitro Assay (IV)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

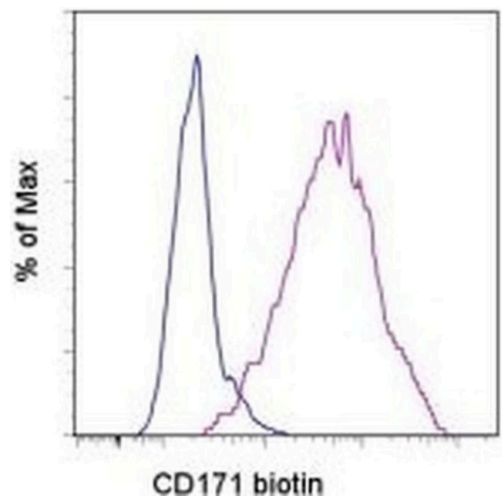
Description: The monoclonal antibody eBio5G3 recognizes CD171 also known as neural cell adhesion molecule L1. CD171 is a member of the Ig superfamily containing 6 extracellular Ig domains and five fibronectin type III-like repeats. CD171 has been shown to function as a cell adhesion molecule mediating 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, immunoblotting (WB), and immunohistology staining of frozen tissue sections.

Applications Tested: This eBio5G3 (5G3) antibody has been tested by flow cytometric analysis of Panc-1 cell line. This can be used at less than or equal to 0.5 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.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD171 Antibody (13-1719-82) in Flow
Staining of Panc-1 cell line with 0.25 µg of Mouse IgG2a kappa Isotype Control Biotin (Product # 13-4724-85) (blue histogram) or 0.25 µg of Anti-Human CD171 Biotin (purple histogram) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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Western Blot (6)

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.	Species Human
"13-1719-82 was used in Western Blot, Flow Cytometry to demonstrate that miR-27b could be an important messaging molecule that is associated with regulating the processing of positive or negative valenced information."	
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 # 13-1719-82) 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 # 13-1719-82) in Immunohistochemistry"	
Authors: Er EE,Valiente M,Ganesh K,Zou Y,Agrawal S,Hu J,Griscom B,Rosenblum M,Boire A,Brogi E,Giancotti 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 # 13-1719-82) in Immunohistochemistry"	
Authors: Er EE,Valiente M,Ganesh K,Zou Y,Agrawal S,Hu J,Griscom B,Rosenblum M,Boire A,Brogi E,Giancotti FG,Schachner M,Malladi S,Massagué J	

More applications with references on thermofisher.com

- Flow (4)
- ELISA (3)
- IP (4)
- AP (1)
- IV (1)
- Misc (1)

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