

Plexin-B2 Monoclonal Antibody (eBio3E7 (3E7)), eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	eBio3E7 (3E7)
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_763626

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-Dependent	2 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	1 Publication
Immunoprecipitation (IP)	Assay-Dependent	-

Product Specific Information

Description: Plexin-B2 is a member of the Semaphorin receptor family. The semaphorin family consists of membrane and secreted proteins involved in attraction and repulsion of neuronal guidance cues. Plexin-B1 is a transmembrane protein that can be cleaved converting the single chain precursor into a heterodimeric receptor. It has been shown to bind Sema4D/CD100 and is involved in axon development in mouse embryos. Sema4D also plays a role in the immune system interacting with CD72. Plexin-B2's possible role in the immune system has not been characterized.

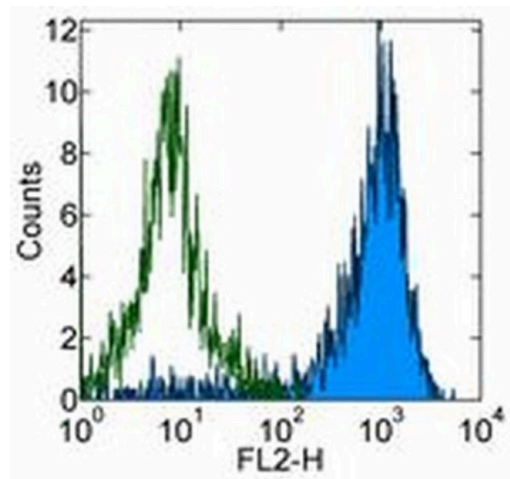
Applications Reported: This eBio3E7 (3E7) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining.

Applications Tested: This eBio3E7 (3E7) antibody has been tested by flow cytometric analysis of mouse splenocytes. 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.

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

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

Filtration: 0.2 µm post-manufacturing filtered.



Plexin-B2 Antibody (14-5665-82) in Flow

Staining of the PDV cell line with 0.25 µg of Armenian Hamster IgG Isotype Control Purified (Product # 14-4888-81) (open histogram) or 0.25 µg of Anti-Mouse Plexin-B2 Purified (filled histogram) followed by Anti-Armenian Hamster IgG Biotin (Product # 13-4113-85) and Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

[View more figures on thermofisher.cn](http://thermofisher.cn)

Immunohistochemistry (2)

<p>Nature communications</p> <p>Mechanochemical control of epidermal stem cell divisions by B-plexins.</p> <p>"Published figure using Plexin-B2 monoclonal antibody (Product # 14-5665-82) in Immunocytochemistry"</p> <p>Authors: Jiang C,Javed A,Kaiser L,Nava MM,Xu R,Brandt DT,Zhao D,Mayer B,Fernández-Baldovinos J,Zhou L,Höß C, Sawmynaden K,Oleksy A,Matthews D,Weinstein LS,Hahn H,Gröne HJ,Graumann PL,Niessen CM,Offermanns S, Wickström SA,Worzfeld T</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:200</p>
<p>Developmental neurobiology</p> <p>Impaired cortical neurogenesis in plexin-B1 and -B2 double deletion mutant.</p> <p>"Published figure using Plexin-B2 monoclonal antibody (Product # 14-5665-82) in Immunofluorescence"</p> <p>Authors: Daviaud N,Chen K,Huang Y,Friedel RH,Zou H</p>	<p>Year 2016</p>

Immunocytochemistry (1)

<p>Nature communications</p> <p>Mechanochemical control of epidermal stem cell divisions by B-plexins.</p> <p>"Published figure using Plexin-B2 monoclonal antibody (Product # 14-5665-82) in Immunocytochemistry"</p> <p>Authors: Jiang C,Javed A,Kaiser L,Nava MM,Xu R,Brandt DT,Zhao D,Mayer B,Fernández-Baldovinos J,Zhou L,Höß C, Sawmynaden K,Oleksy A,Matthews D,Weinstein LS,Hahn H,Gröne HJ,Graumann PL,Niessen CM,Offermanns S, Wickström SA,Worzfeld T</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:200</p>
--	---

Flow Cytometry (1)

<p>eLife</p> <p>Prospective identification of functionally distinct stem cells and neurosphere-initiating cells in adult mouse forebrain.</p> <p>"Published figure using Plexin-B2 monoclonal antibody (Product # 14-5665-82) in Flow Cytometry"</p> <p>Authors: Mich JK,Signer RA,Nakada D,Pineda A,Burgess RJ,Vue TY,Johnson JE,Morrison SJ</p>	<p>Year 2014</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
--	---

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.