

CD277 Monoclonal Antibody (eBioBT3.1 (20.1, BT3.1)), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	eBioBT3.1 (20.1, BT3.1)
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_467550

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	2 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Functional Assay (FN)	-	1 Publication

Product Specific Information

Description: The eBioBT3.1 monoclonal antibody recognizes BT3.1, BT3.2 and BT3.3. The BT family of proteins is a subgroup of the Ig superfamily (IgSF). BT is a glycoprotein that forms a major component of the milk fat globule molecule. In addition to BT, there are six other genes that have been discovered which have been sub-divided into the BT2 (BT2.1, BT2.2, and BT2.3) and BT3 (BT3.1, BT3.2, and BT3.3) families. BT3.1, BT3.2, and BT3.3 share 95% mRNA identity. BT3 molecules are constitutively expressed on the cell surface of antigen-presenting cells, and the IgV-like domain of BT3.1 is sufficient for interaction with its counter-receptor. BT3.1 is expressed by T cells, B cells and CD14+ cells.

Applications Reported: This eBioBT3.1 (20.1, BT3.1) antibody has been reported for use in flow cytometric analysis, and immunoprecipitation.

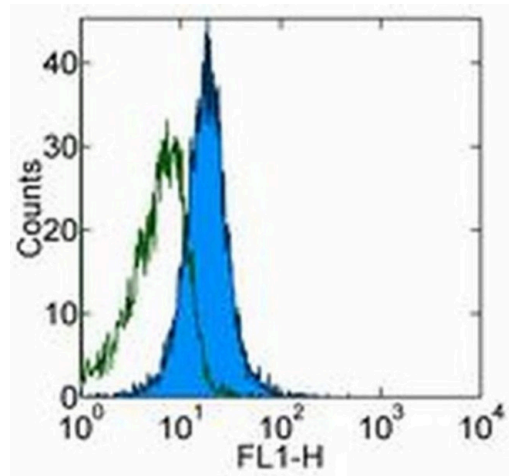
Applications Tested: This eBioBT3.1 (20.1, BT3.1) antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 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 CD277 Monoclonal Antibody (eBioBT3.1 (20.1, BT3.1)), eBioscience™



CD277 Antibody (14-2779-82) in Flow
Staining of normal human peripheral blood cells with 0.5 µg of Mouse IgG1 kappa Isotype Control Purified (Product # 14-4714-82) (open histogram) or 0.5 µg of Anti-Human CD277 Purified (filled histogram). Cells in the lymphocyte gate were used for analysis.

Immunohistochemistry (1)

<p>Oncotarget</p> <p>CD277 is a negative co-stimulatory molecule universally expressed by ovarian cancer microenvironmental cells.</p> <p>"14277982 was used in immunohistochemistry to discuss the role of CD277 in ovarian cancer"</p> <p>Authors: Cubillos-Ruiz JR,Martinez D,Scarlett UK,Rutkowski MR,Nesbeth YC,Camposeco-Jacobs AL,Conejo-Garcia JR</p>	<p>Year</p> <p>2010</p> <p>Species</p> <p>Human</p>
--	---

Flow Cytometry (2)

<p>Immunity</p> <p>Butyrophilin-2A1 Directly Binds Germline-Encoded Regions of the V9V2 TCR and Is Essential for Phosphoantigen Sensing.</p> <p>"14-2779 was used in Flow Cytometry to suggest a composite-ligand model of P-Ag sensing wherein the V9V2 TCR directly interacts with both BTN2A1 and an additional ligand recognized in a CDR3-dependent manner."</p> <p>Authors: Karunakaran MM,Willcox CR,Salim M,Paletta D,Fichtner AS,Noll A,Starick L,Nöhren A,Begley CR,Berwick KA,Chaleil RAG,Pitard V,Déchanet-Merville J,Bates PA,Kimmel B,Knowles TJ,Kunzmann V,Walter L,Jeeves M,Mohammed F,Willcox BE,Herrmann T</p>	<p>Year</p> <p>2020</p> <p>Species</p> <p>Human</p>
---	---

<p>Journal of leukocyte biology</p> <p>Stimulation of human butyrophilin 3 molecules results in negative regulation of cellular immunity.</p> <p>"14-2779-82 was used in Functional assay to study the role of BTN3 as an inhibitor of excessive cellular immune responses."</p> <p>Authors: Yamashiro H,Yoshizaki S,Tadaki T,Egawa K,Seo N</p>	<p>Year</p> <p>2010</p> <p>Species</p> <p>Human</p>
--	---

Functional Assay (1)

<p>Journal of leukocyte biology</p> <p>Stimulation of human butyrophilin 3 molecules results in negative regulation of cellular immunity.</p> <p>"14-2779-82 was used in Functional assay to study the role of BTN3 as an inhibitor of excessive cellular immune responses."</p> <p>Authors: Yamashiro H,Yoshizaki S,Tadaki T,Egawa K,Seo N</p>	<p>Year</p> <p>2010</p> <p>Species</p> <p>Human</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.