

# CD61 (Integrin beta 3) Monoclonal Antibody (2C9.G3), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse, Rat
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2C9.G3
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_468984

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.5 µg/test	8 Publications
ELISA (ELISA)	-	1 Publication
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	1 Publication

## Product Specific Information

**Description:** The 2C9.G3 (HMb3-1) monoclonal antibody reacts with mouse and rat CD61, also known as the integrin beta3. CD61 is expressed by activated T cells, granulocytes, and platelet. CD61 associates non-covalently with two integrin alpha subunits; alphaV (CD51) to form Vitronectin Receptor and alphaIIb (CD41) to form gpIIb/IIIa. These heterodimeric complexes are responsible for adhesion to extracellular matrix components including fibrinogen, fibronectin, vitronectin, thrombospondin and von Willebrand factor.

**Applications Reported:** The 2C9.G3 antibody has been reported for use in flow cytometric analysis. 2C9.G3 has also been reported in blocking of ligand binding and some adhesive processes.

**Applications Tested:** The 2C9.G3 antibody has been tested by flow cytometric analysis of mouse splenocytes and bone marrow cells. 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 10<sup>5</sup> to 10<sup>8</sup>

cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

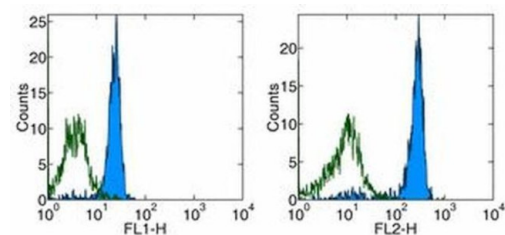
Filtration: 0.2 µm post-manufacturing filtered.

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

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

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

**Product Images For CD61 (Integrin beta 3) Monoclonal Antibody (2C9.G3), Functional Grade, eBioscience™**



**CD61 (Integrin beta 3) Antibody (16-0611-82) in Flow**  
Staining of mouse bone marrow with Anti-Mouse/Rat CD61 (Integrin beta 3) FITC (left) or PE (right). Appropriate isotype controls were used (open histogram). Cells in the myeloid population were used for analysis.

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Western Blot (2)

Scientific reports	Year 2016
<b>WISP1-v3 integrin signaling positively regulates TLR-triggered inflammation response in sepsis induced lung injury.</b>	Species Mouse
Authors: Chen Z,Ding X,Jin S,Pitt B,Zhang L,Billiar T,Li Q	
The Journal of biological chemistry	Year 2009
<b>Plasminogen activator inhibitor-1 regulates integrin alphavbeta3 expression and autocrine transforming growth factor beta signaling.</b>	Species Human Mouse
Authors: Pedroja BS,Kang LE,Imas AO,Carmeliet P,Bernstein AM	

Immunohistochemistry (3)

PLoS genetics	Year 2021
<b>Serotonin transporter-mediated molecular axis regulates regional retinal ganglion cell vulnerability and axon regeneration after nerve injury.</b>	Species Mouse
"16-0611-82 was used in Immunohistochemistry to investigate what molecular contexts determine retinal ganglion cells susceptibility."	
Authors: Kingston R,Amin D,Misra S,Gross JM,Kuwajima T	
Molecular therapy oncolytics	Year 2020
<b>A Small Molecule Inhibitor, OGP46, Is Effective against Imatinib-Resistant BCR-ABL Mutations via the BCR-ABL/JAK-STAT Pathway.</b>	
"Published figure using CD61 (Integrin beta 3) monoclonal antibody (Product # 16-0611-82) in Immunohistochemistry"	
Authors: Wei L,Yang Y,Gupta P,Wang A,Zhao M,Zhao Y,Qu M,Ke Y,Liu Y,Liu HM,Xu X,Sun Y,Chen ZS,Hu Z	

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- ICC/IF (3)
- Flow (8)
- ELISA (1)
- Neu (1)
- FN (1)

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