

CD56 (NCAM1) Recombinant Monoclonal Mouse Antibody (r5.1H11) - Biotium Choice



CD45 (clone 2D1) is a validated mouse monoclonal antibody that recognizes CD45, a transmembrane glycoprotein expressed in hematopoietic cells. The antibody belongs to the Biotium Choice list of select antibodies that have been validated and optimized in-house for optimal performance.

Product Description

CD56 (clone r5.1H11) is a recombinant mouse monoclonal antibody that recognizes transmembrane glycoprotein CD56 (NCAM, neural cell adhesion molecule). This antibody belongs to the Biotium Choice list of select antibodies that have been validated and optimized in-house for optimal performance. The antibody is available conjugated to CF® Dyes, R-PE, and APC. They are supplied in PBS, 0.1% BSA, 0.05% azide.

CD56 exists in isoforms ranging from 120 to 180 kDa and is primarily found on T cells and NK cells. It plays a crucial role in both homophilic and heterophilic adhesion by binding to itself or heparin sulfate. CD56 is also involved in key cellular processes such as migration, axonal growth, pathfinding, and synaptic plasticity. It is widely expressed in neuroectodermal-derived cell lines, tissues, and tumors, including retinoblastoma, medulloblastoma, astrocytomas, and neuroblastoma. Additionally, CD56 serves as a highly sensitive neuroendocrine marker, commonly used for detecting neuroendocrine tumors and ovarian granulosa cell tumors. Dysfunction of CD56 has been linked to diseases such as rabies and blastic plasmacytoid dendritic cell neoplasms.

As an isotype control, we recommend [Isotype Control, Monoclonal Mouse IgG1 Kappa \(IGG1/1331\)](#) for this antibody.

Discover Sharper Signals and Unmatched Panel Flexibility with Biotium Choice Antibodies Powered by CF® Dyes and Astral Leap™ Tandem Dyes

Biotium Choice antibodies are carefully curated and validated in-house to offer exceptional signal-to-noise. Labeled with our advanced CF® Dyes and Astral Leap™ tandem dyes, they are our top-recommended antibodies for flow cytometry and other applications.

Biotium Choice Antibody Features

- Robust and validated clones against common targets
- Developed and optimized for flow cytometry and other applications
- Conjugated to bright, photostable [CF® Dyes](#) for superior signal and clarity
- Also available with [Astral Leap™ tandem dyes](#) for expanding multiplexing
- New antibody clones and dye conjugates continuously in development

[View our full catalog of Biotium Choice antibodies](#)

Product attributes

Antibody number	P026
Antibody reactivity (target)	CD56
Biotium Choice Antibody	Primary
Antibody type	Biotium Choice Flow Antibodies, Primary
Host species	Mouse
Clonality	Recombinant Monoclonal
Clone	r5.1H11
Isotype	IgG1, kappa
Molecular weight	N/A
Synonyms	NCAM1, NKH1
Human gene symbol	CD45
Entrez gene ID	4684
SwissProt	P13591
Antibody target cellular localization	Plasma membrane
Verified antibody applications	Flow (surface) (verified)
Species reactivity	Human
Antibody application notes	Recommended concentration for flow cytometry: 5 uL per million cells/0.1 mL
Positive control	Human peripheral blood mononuclear cells (PBMCs)
Shipping condition	Room temperature
Storage Conditions	Note: store unconjugated formats at -10 °C to -35 °C. Store conjugates at 2 °C to 8 °C. Protect fluorescent conjugates from light
Shelf life	Guaranteed for at least 24 months from date of receipt when stored as recommended
Regulatory status	For research use only (RUO)
Volume per assay	5 uL/test
Antibody/conjugate formulation	Conjugates: PBS/0.1% rBSA/0.05% azide, Purified: PBS, no BSA, no azide
Antibody research areas	Cancer, Cell adhesion, Neuroscience
Product origin	Recombinant mouse IgG produced in Chinese Hamster Ovary (CHO) cell line; recombinant BSA produced in Chinese hamster ovary cells.
Cell/tissue expression	Skeletal Muscle, Neurons, NK cells
Tumor expression	Neuroectodermal cancer

Antibody	Conjugates	Detection Channels	Catalog Number
ExoBrite™ STORM CD9 Antibody	CF®498	FITC	P003-498ST-500
	CF®568	Cy@3	P003-568ST-500
	CF®583R	Texas Red®	P003-583RST-500
	CF®647Plus	Cy@5	P003-647PST-500
ExoBrite™ STORM CD63 Antibody	CF®498	FITC	P004-498ST-500
	CF®568	Cy@3	P004-568ST-500
	CF®583R	Texas Red®	P004-583RST-500
	CF®647Plus	Cy@5	P004-647PST-500
ExoBrite™ STORM CD81 Antibody	CF®498	FITC	P005-498ST-500
	CF®568	Cy@3	P005-568ST-500
	CF®583R	Texas Red®	P005-583RST-500
	CF®647Plus	Cy@5	P005-647PST-500
ExoBrite™ STORM CD9 (Mouse) Antibody	CF®568	Cy@3	P018-568ST-500
	CF®647Plus	Cy@5	P018-647PST-500
ExoBrite™ STORM CD63 (Mouse) Antibody	CF®568	Cy@3	P022-568ST-500
	CF®647Plus	Cy@5	P022-647PST-500
ExoBrite™ STORM CD81 (Mouse/Rat) Antibody	CF®568	Cy@3	P019-568ST-500
	CF®647Plus	Cy@5	P019-647PST-500