

## ExoBrite™ STORM CD81 Antibody

Validated CD81 antibody for detection of EVs, formulated to minimize aggregation, and conjugated to high-performance CF® Dyes for STORM.



### Product Description

ExoBrite™ STORM CD81 Antibody is designed for detecting the EV marker CD81 using stochastic optical reconstruction microscopy (STORM). Conjugated to optimized CF® Dyes for superior STORM performance, the antibody and its buffer are also specifically formulated for reliable detection of isolated EVs.

- Validated antibody for detecting EV marker CD81
- Available with excellent STORM dyes CF®498, CF®568, CF®583R, and CF®647Plus
- Proprietary buffer for enhanced signal-to-noise
- Available in 4 colors for FITC, Cy®3, Texas Red®, and Cy®5 channels

The most common proteins used as EV markers are CD9, CD63, and CD81, members of the tetraspanin family. These tetraspanins are broadly expressed on many cell types and can therefore be detected on many types of EVs, but their expression levels vary depending on the cell type of origin.

### Superior performance for STORM imaging

Other commercially available antibodies for tetraspanin proteins CD9, CD63, and CD81 are generally not validated for isolated EVs or super-resolution imaging, and may require tedious optimization for your EV prep and staining protocol.

ExoBrite™ STORM Antibodies are powered by our [industry-leading CF® Dyes for STORM](#). Available in CF®498, CF®568, CF®583R, and CF®647Plus, these dyes offer exceptional photochemical switching properties—delivering superior signal quality and image reconstruction for unmatched performance in STORM.

The labeled antibody was carefully selected and validated for robust detection of isolated EVs. In addition, the antibodies are provided in a proprietary buffer formulation for reduced antibody aggregation and brighter EV staining for optimal accuracy and signal-to-noise. ExoBrite™ STORM Antibodies are compatible with co-staining with other fluorescently labeled antibodies or for bead-bound EV staining protocols.

[Cholera toxin subunit B \(CTB\)](#) conjugated to high-performance CF® Dyes for STORM are also available, as well as tetraspanin antibodies optimized for detection of EVs by [flow cytometry](#) and [western blotting](#).

Learn more about our [CF® Dyes for super-resolution imaging](#), as well as our other [ExoBrite™ stains, antibodies, and other reagents](#) developed specifically for EV detection and analysis.

### Product attributes

<b>Antibody number</b>	#P005
<b>SwissProt</b>	P60033
<b>Antibody type</b>	Primary
<b>Clonality</b>	Monoclonal
<b>Host species</b>	Mouse
<b>Isotype</b>	IgG1, kappa
<b>Antibody reactivity (target)</b>	CD81
<b>Synonyms</b>	CD81; Target of the antiproliferative antibody 1 (TAPA-1); Tetraspanin-28; Tspan-28
<b>Species reactivity</b>	Baboon, Cynomolgus monkey, Human, Mouse (low reactivity), Non-human primates
<b>Human gene symbol</b>	CD81
<b>Entrez gene ID</b>	975
<b>Unigene</b>	54457
<b>Molecular weight</b>	26 kDa
<b>Antibody target cellular localization</b>	Exosomes/EVs, Plasma membrane
<b>Cell/tissue expression</b>	Exosomes, Hepatocytes, Lymphocytes, Monocytes/macrophages
<b>Verified antibody applications</b>	Exosome staining (verified)
<b>Positive control</b>	MCF-7 cells, MCF-7 derived exosomes
<b>Shipping condition</b>	Room temperature
<b>Antibody research areas</b>	Exosomes/EVs
<b>Antibody/conjugate formulation</b>	Proprietary buffer containing 0.05% sodium azide
<b>Shelf life</b>	Guaranteed for at least 24 months from date of receipt when stored as recommended
<b>Storage Conditions</b>	Store at 2 to 8 °C, Protect fluorescent conjugates from light
<b>Regulatory status</b>	For research use only (RUO)
<b>Product origin</b>	Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.

Antibody	Ex/Em	Size	Conc.	Detection Channel	Catalog No.
<a href="#">ExoBrite™ STORM CF@498 CD9 Antibody</a>	498/519 nm	500 uL	100 ug/mL	FITC	P003-498ST-500
<a href="#">ExoBrite™ STORM CF@568 CD9 Antibody</a>	562/584 nm	500 uL	100 ug/mL	Cy@3	P003-568ST-500
<a href="#">ExoBrite™ STORM CF@583R CD9 Antibody</a>	585/609 nm	500 uL	100 ug/mL	Texas Red®	P003-583RST-500
<a href="#">ExoBrite™ STORM CF@647Plus CD9 Antibody</a>	652/668 nm	500 uL	100 ug/mL	Cy@5	P003-647PST-500
<a href="#">ExoBrite™ STORM CF@498 CD63 Antibody</a>	498/519 nm	500 uL	100 ug/mL	FITC	P004-498ST-500
<a href="#">ExoBrite™ STORM CF@568 CD63 Antibody</a>	562/584 nm	500 uL	100 ug/mL	Cy@3	P004-568ST-500
<a href="#">ExoBrite™ STORM CF@583R CD63 Antibody</a>	585/609 nm	500 uL	100 ug/mL	Texas Red®	P004-583RST-500
<a href="#">ExoBrite™ STORM CF@647Plus CD63 Antibody</a>	652/668 nm	500 uL	100 ug/mL	Cy@5	P004-647PST-500
<a href="#">ExoBrite™ STORM CF@498 CD81 Antibody</a>	498/519 nm	500 uL	100 ug/mL	FITC	P005-498ST-500
<a href="#">ExoBrite™ STORM CF@568 CD81 Antibody</a>	562/584 nm	500 uL	100 ug/mL	Cy@3	P005-568ST-500
<a href="#">ExoBrite™ STORM CF@583R CD81 Antibody</a>	585/609 nm	500 uL	100 ug/mL	Texas Red®	P005-583RST-500
<a href="#">ExoBrite™ STORM CF@647Plus CD81 Antibody</a>	652/668 nm	500 uL	100 ug/mL	Cy@5	P005-647PST-500
<a href="#">ExoBrite™ STORM CF@568 CD9 (Mouse) Antibody</a>	562/584 nm	500 uL	100 ug/mL	Cy@3	P018-568ST-500
<a href="#">ExoBrite™ STORM CF@647Plus CD9 (Mouse) Antibody</a>	652/668 nm	500 uL	100 ug/mL	Cy@5	P018-647PST-500
<a href="#">ExoBrite™ STORM CF@568 CD63 (Mouse) Antibody</a>	562/584 nm	500 uL	100 ug/mL	Cy@3	P022-568ST-500
<a href="#">ExoBrite™ STORM CF@647Plus CD63 (Mouse) Antibody</a>	652/668 nm	500 uL	100 ug/mL	Cy@5	P022-647PST-500
<a href="#">ExoBrite™ STORM CF@568 CD81 (Mouse/Rat) Antibody</a>	562/584 nm	500 uL	100 ug/mL	Cy@3	P019-568ST-500
<a href="#">ExoBrite™ STORM CF@647Plus CD81 (Mouse/Rat) Antibody</a>	652/668 nm	500 uL	100 ug/mL	Cy@5	P019-647PST-500

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