ExoBrite™ CD9/CD63/CD81 Single-Color Antibody Cocktails



Antibody mixtures developed for high-coverage EV antibody staining by flow cytometry. Available in green, orange, and far-red.

Product Description

The ExoBrite™ CD9/CD63/CD81 Single-Color Antibody Cocktails were developed for simple, high-coverage staining of EV samples by flow cytometry. The mixtures have been meticulously optimized for optimal brightness and signal-to-noise. The cocktails are available in green, orange, or far-red.

Features

- Designed for high-coverage EV antibody staining by flow
- Each antibody is optimized to offer the brightest signal
- Formulated for low aggregation, high signal-to-noise
- Cost-efficient mixture of three antibodies

Available in green, orange, or far-red

- ExoBrite™ 490/515 (Green Cocktail)
- ExoBrite™ 560/585 (Orange Cocktail)
- ExoBrite™ 640/660 (Far-Red Cocktail)

Skip the optimization, get results faster

The most commonly used markers for extracellular vesicle (EV) detection are the three tetraspanin proteins CD9, CD63, and CD81. Depending on the source of the EVs, each of these proteins will be present at varying levels. The ExoBrite CD9/CD63/CD81 Single-Color Antibody Cocktails were designed for high-coverage EV antibody staining by flow cytometry. The amount of each antibody in the mixture has been optimized to obtain the highest coverage.

In addition, like all ExoBrite™ Flow antibodies, the ExoBrite™ cocktails are provided in a proprietary buffer formulation for reduced antibody aggregation and brighter EV staining for optimal accuracy and signal-to-noise. Each single-color cocktail provides high-coverage EV staining, preserving other channels for additional targets.

EV antibodies you can trust

Other commercially available antibodies for human tetraspanin proteins CD9, CD63, and CD81 are generally not validated for isolated EVs and may require tedious optimization for your EV prep and staining protocol. The antibodies and dye labels of ExoBrite™ Flow Antibody Conjugates were carefully selected and validated for robust detection of isolated EVs. See the table below for a full list of available ExoBrite™ Flow Antibody Conjugates. ExoBrite™ Isotype Control Flow Antibodies are also available as a negative controls.

Accelerate your EV research with ExoBrite™ EV stains

For general EV staining, Biotium's ExoBrite™ True EV Membrane Stains offer unparalleled coverage of EVs in a sample and address issues of dye aggregation often seen with PKH and other common membrane dyes. Biotium also offers optimized ExoBrite™ EV Surface stains conjugated to cholera toxin B (CTB), wheat germ agglutinin (WGA), and Annexin V. These stains are specially formulated for bright and specific detection of isolated EVs by flow cytometry. These ExoBrite™ EV Surface Stains may also be combined with antibody staining, for multi-parameter analysis.

Biotium also offers conjugated ExoBrite™ Western Antibodies against human CD9, CD63, and CD81 designed for optimal detection in EV extracts by fluorescent western blot.

Note: In our testing, we have found that ExoBrite™ 490/515 dye may bind to streptavidin coated surfaces or beads if free biotin binding sites are not blocked. We recommend performing a biotin blocking step after binding your biotinylated capture antibody to streptavidin beads or surfaces when using ExoBrite™ 490/515 conjugates. Alternatively, consider using a different ExoBrite™ Dye for staining EVs captured on streptavidin beads or surfaces.

Product attributes

Antibody number	#P030, #P031, #P032
SwissProt	P21926, P08962, P60033
Antibody type	ExoBrite™, Primary
Clonality	Monoclonal
Host species	Mouse
Isotype	IgG1, kappa
Antibody reactivity (target)	CD63, CD81, CD9
Species reactivity	Human
Human gene symbol	CD9, CD63, CD81
Entrez gene ID	928, 967, 975
Unigene	114286, 445570, 54457
Antibody target cellular localization	Exosomes/EVs, Plasma membrane
Verified antibody applications	Flow (surface) (verified)
Positive control	MCF-7 cells, MCF-7 derived EVs
Antibody application notes	Recommended concentration for flow cytometry: 5 uL per 0.1 mL exosomes
Antibody research areas	Exosomes/EVs
Antibody/conjugate formulation	Proprietary buffer containing 0.05% sodium azide
Shelf life	Guaranteed for at least 24 months from date of receipt when stored as recommended
Storage Conditions	Store at 2 to 8 °C, Protect fluorescent conjugates from light
Regulatory status	For research use only (RUO)
Shipping condition	Room temperature

ExoBrite™ Flow Anti-Human CD9/CD63/CD81 Antibody Cocktails

Cocktail	Ex/Em	Detection Channel	Size	Catalog No.
ExoBrite™ CD9/CD63/CD81 Single-Color Antibody Cocktail (Green)	490/516 nm	FITC	25 tests	P030-125
100 tests	P030-500			
ExoBrite™ CD9/CD63/CD81 Single-Color Antibody Cocktail (Orange)	562/584 nm	PE	25 tests	P031-125
100 tests	P031-500			
ExoBrite™ CD9/CD63/CD81 Single-Color Antibody Cocktail (Far-Red)	642/663 nm	APC	25 tests	P032-125
100 tests	P032-500			
ExoBrite™ CD9/CD63/CD81 3-Color Antibody Cocktail (Blue/Green/Far-Red)	409/452 nm 490/516 nm 642/663 nm	Pacific Blue® FITC APC	25 tests	P028-125
100 tests	P028-500			
ExoBrite™ CD9/CD63/CD81 3-Color Antibody Cocktail (Green/Orange/Far-Red)	490/516 nm 562/584 nm 642/663 nm	FITC PE APC	25 tests	P029-125
100 tests	P029-500			

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