

## ExoBrite™ Calnexin Western Antibody

Validated antibody for detection of endoplasmic reticulum protein calnexin by fluorescent western blot. Serves as a negative control to assess the purity of isolated EV extracts.



### Product Description

ExoBrite™ Calnexin Western Antibody is validated by Biotium for detection of calnexin, an endoplasmic reticulum protein (ER) that is not found in extracellular vesicles (EVs). The antibody serves as a negative control to assess the purity of isolated EV extracts. The antibody is offered as a conjugate to ExoBrite™ 770/800 near-infrared fluorescent dye, which offers greater signal-to-noise than visible light fluorescent dyes for western blotting.

- Validated for detection of ER protein calnexin by fluorescent western blot
- Serves as a negative control for assessing purity of isolated EV extracts
- Bright signal and low background
- Available in near-infrared ExoBrite™ 770/800.

EVs, including exosomes, are lipid-bound vesicles that are released from cells. EVs display specific surface proteins and can carry nucleic acids and other cargo, allowing them to transfer biological information between cells in different parts of the body. Therefore EVs are increasingly studied for their potential use in drug delivery and medical diagnostic applications. The most common proteins used as EV markers are CD9, CD63, and CD81, members of the tetraspanin family. Tetraspanins are plasma membrane proteins with many proposed functions, including activation and sorting of other membrane proteins. They are also thought to play a role in the targeting of proteins to multivesicular bodies (MVBs) and exosomes. 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.

#### EV antibodies you can trust

Other commercially available antibodies for 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. ExoBrite™ Western Antibody Conjugates were validated to offer bright signal and low background of EV markers in EV extracts.

If you are using secondary antibodies for western detection, Biotium also offers unconjugated recombinant antibodies against [CD9](#), [CD63](#), and [CD81](#). [ExoBrite™ Flow Antibody Conjugates](#) are also available for optimal detection of CD9, CD63, and CD81 EV markers by flow cytometry.

For general EV staining, Biotium offers ExoBrite™ 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™ stains may also be combined with antibody staining, for multi-parameter analysis.

### Product attributes

Validated in protein array	Monospecific
Antibody number	#P007
SwissProt	P27824
Antibody type	Primary
Clonality	Monoclonal
Host species	Mouse
Isotype	IgG1, kappa
Antibody reactivity (target)	Calnexin
Synonyms	Calnexin; CANX; CNX; IP90; Major histocompatibility complex class I antigen-binding protein p88; P90
Species reactivity	Human
Human gene symbol	CANX
Entrez gene ID	821
Unigene	567968
Molecular weight	67 kDa (predicted); 80-90 kDa (observed)
Antibody target cellular localization	Endoplasmic reticulum
Cell/tissue expression	All cells
Verified antibody applications	WB (verified)
Shipping condition	Room temperature
Positive control	MCF-7 cells, MCF-7 derived exosomes
Antibody application notes	Optimal concentration to be determined by end-user, Recommended amount for western blot: 100 ng/mL = 1:1000 dilution
Antibody research areas	Exosomes/EVs
Antibody/conjugate formulation	PBS, 0.1% BSA, 0.05% 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)
Product origin	Product may contain either bovine serum albumin (BSA) from bovine serum ( <i>Bos taurus</i> ), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.

## ExoBrite™ Western Antibody Conjugates

Antibody	Ex/Em	Conc.	Size	Catalog No.
<a href="#">ExoBrite™ 680/700 CD9 Western Antibody</a>	681/698 nm	100 ug/mL	25 tests	P003-680-250
100 tests	P003-680-1000			
<a href="#">ExoBrite™ 770/800 CD9 Western Antibody</a>	770/797 nm	100 ug/mL	25 tests	P003-770-250
100 tests	P003-770-1000			
<a href="#">ExoBrite™ 680/700 CD63 Western Antibody</a>	681/698 nm	100 ug/mL	25 tests	P004-680-250
100 tests	P004-680-1000			
<a href="#">ExoBrite™ 770/800 CD63 Western Antibody</a>	770/797 nm	100 ug/mL	25 tests	P004-770-250
100 tests	P004-770-1000			
<a href="#">ExoBrite™ 680/700 CD81 Western Antibody</a>	681/698 nm	100 ug/mL	25 tests	P006-680-250
100 tests	P006-680-1000			
<a href="#">ExoBrite™ 770/800 CD81 Western Antibody</a>	770/797 nm	100 ug/mL	25 tests	P006-770-250
100 tests	P006-770-1000			
<a href="#">ExoBrite™ 770/800 Calnexin Western Antibody</a>	770/797 nm	100 ug/mL	25 tests	P007-770-250
100 tests	P007-770-1000			

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