

Occludin ABfinity™ Recombinant Rabbit Monoclonal Antibody – Purified

Publication Part no. MAN0006234

Rev. 1.0

Catalog Number: 701161

Store at 2–8°C (short-term), or –20°C (long-term)

Clonality: Monoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human Occludin
Predicted Reactivity: Human

Product Description

The occludin protein is involved in the assembly and maintenance of tight junctions. The expression of occludin varies greatly on the type of tissue. It is continuously and highly expressed in brain, whereas non-neural tissues show lower expression and discontinuous distribution. Overall structural features of the occludin protein are highly conserved in all the species examined.

Product Specifications

Immunogen: Peptide corresponding to amino acids 387–403 of human occludin
Alternate Names: OCLN
Apparent MW: ~59 kDa
Gene ID: 4950
Protein Accession No.: Q16625
Sequence Identity: Human
Sequence Homology: Mouse, Rat, Rabbit, Horse
Clone/PAD: 6H10L9
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HEK-293 and MCF-7 cells	2–5 µg/mL
Immunocytochemistry	Human	U2OS cells	1–3 µg/mL
Indirect ELISA	Human	Peptide	1.5x10 ⁻⁴ to 3 µg/mL

Storage and Handling

Store the antibody at 2–8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

Stability

Expires one year from date of receipt when stored as instructed.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Note: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

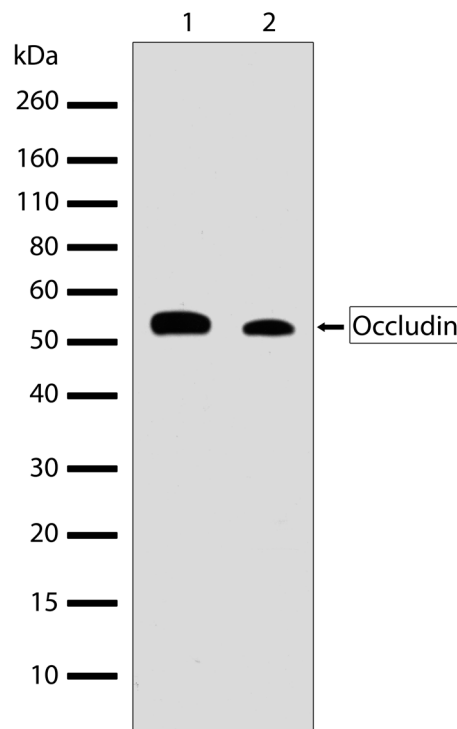


Figure 1 Western blot analysis of Occludin ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701161). Western blot analysis was performed on HEK-293 (lane 1) and MCF-7 (lane 2) whole cell extracts. Endogenous occludin at ~59 kDa was detected using Occludin ABfinity™ Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using chemiluminescence (ECL) method.

For research use only. Not for human or animal therapeutic or diagnostic use.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.lifetechnologies.com/sds.

Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.lifetechnologies.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

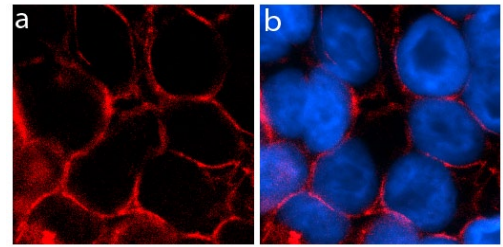


Figure 2 Immunocytochemistry analysis of Occludin ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701161). Immunocytochemistry analysis of U2OS cells stained with Occludin ABfinity™ Recombinant Rabbit Monoclonal Antibody, using **a**: Alexa Fluor® 594 goat anti-rabbit as a secondary antibody (red). **b**: Composite image of cells with nuclei stained with DAPI (blue) showing localization of occludin at tight junctions.

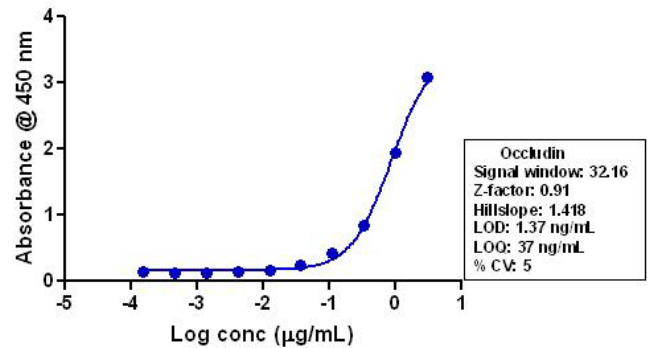


Figure 3 Indirect ELISA of Occludin ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701161). Indirect ELISA was performed using various dilutions of Occludin ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701161) to detect occludin peptide coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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Revision Date: 15 January 2012

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