

Human Nectin-3 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 337407 Catalog Number: FAB3064R

100 μς

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Nectin-3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Nectin-1, -2, -4, or recombinant mouse Nectin-3 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 337407
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Nectin-3 Leu56-Asp400 Accession # Q9NQS3
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze, 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Nectins are a small family of Ca⁺⁺-independent immunoglobulin (Ig)-like cell adhesion molecules (CAMs) that organize intercellular junctions (1-4). The Nectin family has at least four members (Nectin-1-4), all of which show alternate splicing, a transmembrane (TM) region (except for Nectin-1γ), and three extracellular Ig-domains. Nectins are highly homologous to the human receptor for poliovirus, and as such, have been alternatively-named poliovirus receptor-related proteins. They do not, however, appear to bind poliovirus (1). Nectin-3 (also named PRR3, CD113, and PVRL3) is an 83 kDa, type I TM glycoprotein. Its precursor is 549 amino acids (aa) in length. It contains an extended signal sequence of 57 aa, an extracellular domain (ECD) of 347 aa, a transmembrane segment of 21 aa (aa 405-425), and a cytoplasmic region of 124 amino acids. The ECD shows three Ig-like domains; one N-terminal V-type and two membrane-proximal C2-type. The cytoplasmic region shows a Glu-Trp-Tyr-Val motif that binds afadin (3, 5, 6). The ECD of human Nectin-3 is 94% aa identical to mouse Nectin-3 ECD (5, 6). Nectin-3 has a diverse expression pattern. It has been found in junctions between small intestinal columnar epithelial cells (6), pigmented and nonpigmented epithelium in the ciliary body (7), spermatids and Sertoli cells in the seminiferous tubules (8), and on spinal cord motor neurons and axons, plus Schwann cells of the peripheral nervous system (9). As with mouse, human Nectin-3 has three potential isoforms. It does not appear that they are strict orthologs. In addition to the full length isoform, a second human isoform has a 31 aa substitution for the first 54 aa of the signal sequence, followed by a deletion of aa 291-549 (10). The third human isoform shows a 10 aa substitution for mation. It does so by first forming same cell (*cis*-) heterodimers with α_iβ₃ and PDGF R (an anti-apoptotic interaction) (2, 4). This results in actin reorganization and recruitment of adherens and occludins adhesion molecules. Subsequent Ne

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Rev. 9/21/2025 Page 1 of 1

Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956

Bio-Techne®

USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449 China | info.cn@bio-techne.com TEL: 400.821.3475