

Digoxigenin Recombinant Rabbit Monoclonal Antibody (9H27L19)

Catalog Number700772

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Chemical
Host/Isotope	Rabbit / IgG	Published species	Fungi, Rat, Chemical, Zebrafish, Mouse
Class	Recombinant Monoclonal	Tested Applications	
Type	Antibody	Western Blot (WB)	Dilution * 0.1-0.5 µg/mL
Clone	9H27L19	Published Applications	
Immunogen	proprietary	Immunohistochemistry (IHC)	See 4 publications below
Conjugate	Unconjugated	Flow Cytometry (Flow)	See 1 publications below
Form	Liquid	In Situ Hybridization (ISH) (ISH)	See 2 publications below
Concentration	0.5 mg/mL	Miscellaneous PubMed (Misc)	See 2 publications below
Purification	Protein A	ELISA (ELISA)	See 2 publications below
Storage buffer	PBS	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Contains	0.09% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain. Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Background/Target Information

Digoxin, also known as digitalis, is a purified cardiac glycoside extracted from the foxglove plant, Digitalis lanata. Its corresponding aglycone is digoxigenin, and its acetyl derivative is acetyldigoxin. Digoxin is widely used in the treatment of various heart conditions, namely atrial fibrillation, atrial flutter and sometimes heart failure that cannot be controlled by other medication. Digoxin preparations are commonly marketed under the trade names Lanoxin, Digitek, and Lanoxicaps. Digoxin is also used as an affinity system for nonradioactive labeling and detection of proteins and nucleic acids.

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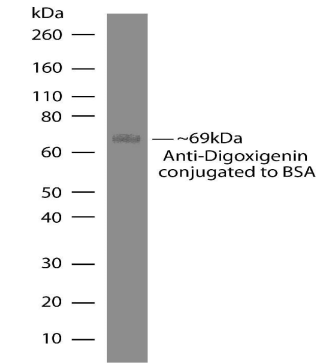
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Product Images For Digoxigenin Recombinant Rabbit Monoclonal Antibody (9H27L19)

Digoxigenin Antibody (700772) in WB

Western blot analysis of recombinant Digoxigenin conjugated to BSA (1 ng/lane) using a Digoxigenin recombinant rabbit monoclonal antibody (Product # 700772) at a dilution of 0.1 µg/mL. NBT/BCIP was used as the substrate (Product # WB7105).



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PubMed References For Digoxigenin Recombinant Rabbit Monoclonal Antibody (9H27L19)

4 Immunohistochemistry References

Species / Dilution	Summary
Mouse / Not Cited Rat / Not Cited	700772 was used in Immunohistochemistry to conclude that, in rodents, the TRH innervation of TMN originates in part from TRH neurons in the TuLH, and that this TRH population may contribute to regulate energy homeostasis through histamine Trhr-positive neurons of the TMN. Brain structure & function (2022; 227: 2329) "Origin of thyrotropin-releasing hormone neurons that innervate the tuberomammillary nuclei." Author(s):Sánchez-Jaramillo E,Wittmann G,Menyhért J,Singru P,Gómez-González GB,Sánchez-Islas E,Yáñez-Recendis N,Pimentel-Cabrera JA,León-Olea M,Gereben B,Fekete C,Charli JL,Lechan RM PubMed Article URL: http://dx.doi.org/10.1007/s00429-022-02527-5
Mouse / 1:500	700772 was used in Immunohistochemistry to show that a variant in the PCDHGA10 gene may be involved in causing or aggravating some familial cases of recurrent idiopathic BPPV. PloS one (2021; 16:) "Identification of a genetic variant underlying familial cases of recurrent benign paroxysmal positional vertigo." Author(s):Xu Y,Zhang Y,Lopez IA,Hilbers J,Griswold AJ,Ishiyama A,Blanton S,Liu XZ,Lundberg YW PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0251386
Zebrafish / 1:100	700772 was used in Immunohistochemistry to examine the function of the FAM57B gene to further assess the predicted connection with 16p11.2 deletion syndrome. iScience (2022; 25:) "16pdel lipid changes in iPSC-derived neurons and function of FAM57B in lipid metabolism and synaptogenesis." Author(s):Tomasello DL,Kim JL,Khodour Y,McCammon JM,Mitalipova M,Jaenisch R,Futerman AH,Sive H PubMed Article URL: http://dx.doi.org/10.1016/j.isci.2021.103551
Chemical / 1:100	700772 was used in Immunohistochemistry to demonstrate a mechanism for phenotypical robustness by use of multiple enhancers which can reinforce a local transcriptional hub to buffer against environmental stresses and genetic perturbations. eLife (2019; 8:) "Multi-enhancer transcriptional hubs confer phenotypic robustness." Author(s):Tsai A,Alves MR,Crocker J PubMed Article URL: http://dx.doi.org/10.7554/eLife.45325

1 Flow Cytometry References

Species / Dilution	Summary
Fungi / Not Cited	700772 was used in Flow Cytometry to reveal that PrLDs support the assembly of TF complexes that control fungal cell identity and highlight parallels with the 'super-enhancers' that regulate mammalian cell fate. Nature microbiology (2020; 5: 1374) "Epigenetic cell fate in Candida albicans is controlled by transcription factor condensates acting at super-enhancer-like elements." Author(s):Frazer C,Staples MI,Kim Y,Hirakawa M,Dowell MA,Johnson NV,Hernday AD,Ryan VH,Fawzi NL,Finkelstein IJ,Bennett RJ PubMed Article URL: http://dx.doi.org/10.1038/s41564-020-0760-7

2 In Situ Hybridization (ISH) References

Species / Dilution	Summary
Chemical / Not Cited	700772 was used in In Situ Hybridization to study the role of glutamatergic POMC neurons in maintaining energy homeostasis. eNeuro (2020; 6:) "Selective Restoration of Pomc Expression in Glutamatergic POMC Neurons: Evidence for a Dynamic Hypothalamic Neurotransmitter Network." Author(s):Jones GL,Wittmann G,Yokosawa EB,Yu H,Mercer AJ,Lechan RM,Low MJ PubMed Article URL: http://dx.doi.org/10.1523/ENEURO.0400-18.2019
Chemical / Not Cited	700772 was used in in situ hybridization to study the ability of Met inhibitors to reverse chemoresistance in small cell lung cancer and the role of epithelial-to-mesenchymal transition Clinical cancer research : an official journal of the American Association for Cancer Research (2014; 20: 938) "Targeting epithelial-to-mesenchymal transition with Met inhibitors reverts chemoresistance in small cell lung cancer." Author(s):Cañadas I,Rojo F,Taus Á,Arpí O,Arumí-Uría M,Pijuan L,Menéndez S,Zazo S,Dómine M,Salido M,Mojal S,García de Herreros A,Rovira A,Albanell J,Arriola E PubMed Article URL: http://dx.doi.org/10.1158/1078-0432.CCR-13-1330

2 Miscellaneous PubMed References

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Species / Dilution	Summary
Chemical / 1:1000	700772 was used in immunocytochemistry to examine the distribution of orcokinin isoforms in Drosophila
	Peptides (2015; 68: 50) "Isoform-specific expression of the neuropeptide orcokinin in Drosophila melanogaster." Author(s):Chen J,Choi MS,Mizoguchi A,Veenstra JA,Kang K,Kim YJ,Kwon JY PubMed Article URL: http://dx.doi.org/10.1016/j.peptides.2015.01.002
Chemical / Not Cited	700772 was used in an In situ hybridization assay to reveal a mechanism that directly links junction integrity to the silencing of a set of mRNAs that critically affect epithelial homeostasis.
	The Journal of cell biology (2017; 216: 3073) "Cadherin complexes recruit mRNAs and RISC to regulate epithelial cell signaling." Author(s):Kourtidis A,Necela B,Lin WH,Lu R,Feathers RW,Asmann YW,Thompson EA,Anastasiadis PZ PubMed Article URL: http://dx.doi.org/10.1083/jcb.201612125
2 ELISA References	
Species / Dilution	Summary
Chemical / Not Cited	700772 was used in ELISA to report a high-throughput method for DNA curtain studies
	Langmuir : the ACS journal of surfaces and colloids (2015; 31: 10310) "High-Throughput Universal DNA Curtain Arrays for Single-Molecule Fluorescence Imaging." Author(s):Gallardo IF,Pasupathy P,Brown M,Manhart CM,Neikirk DP,Alani E,Finkelstein IJ PubMed Article URL: http://dx.doi.org/10.1021/acs.langmuir.5b02416
Chemical / Not Cited	700772 was used in ELISA to report a proof-of-principle assay for the development of a highly sensitive aptamer-Qdot LF strip assay for rapid foodborne pathogen detection.
	Pathogens (Basel, Switzerland) (2014; 3: 341) "Application of DNA Aptamers and Quantum Dots to Lateral Flow Test Strips for Detection of Foodborne Pathogens with Improved Sensitivity versus Colloidal Gold." Author(s):Bruno JG PubMed Article URL: http://dx.doi.org/10.3390/pathogens3020341

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