

Resource Summary Report

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39.4D5 antibody, deposited by Jessell, T.M. / Brenner-Morton, S. HHMI/Columbia University

RRID:AB_2314683

Type: Antibody

Proper Citation

(DSHB Cat# 39.4D5, RRID:AB_2314683)

Antibody Information

URL: http://antibodyregistry.org/AB_2314683

Proper Citation: (DSHB Cat# 39.4D5, RRID:AB_2314683)

Target Antigen: Islet-1 & Islet-2 homeobox

Host Organism: mouse

Clonality: monoclonal

Comments: Jessell, Thomas M / Brenner-Morton, Susan, Islet-1 Islet-2 homeobox, Rat, MlgG2b, Rat/Mouse/Chicken/Frog/Zebrafish/Ferret/Human, Isl1 & Isl2, ISL1, ISL LIM homeobox 1, ISL2; ISL LIM homeobox 2, AB_2314683, Monoclonal epitope mapped: Yes; Predicted: 39kDa; Apparent: 39kDa Recombinant fusion protein containing aa 178-349 of Isl1 protein (C-terminus)

This was consolidated with AB_528173 on 1/2018.

Antibody Name: 39.4D5 antibody, deposited by Jessell, T.M. / Brenner-Morton, S. HHMI/Columbia University

Description: This monoclonal targets Islet-1 & Islet-2 homeobox

Target Organism: rat

Defining Citation:

[PMID:11336495](#), [PMID:1350865](#), [PMID:22275004](#), [PMID:20146251](#), [PMID:16260730](#),
[PMID:14993186](#), [PMID:11877374](#), [PMID:16672347](#), [PMID:19571884](#), [PMID:10704832](#),
[PMID:11301207](#), [PMID:19379735](#), [PMID:7528105](#), [PMID:20080554](#), [PMID:15525781](#),
[PMID:22003118](#), [PMID:20549713](#), [PMID:16899237](#), [PMID:11818560](#), [PMID:14973](#),
[PMID:16815098](#), [PMID:12150931](#), [PMID:10491257](#), [PMID:24674670](#), [PMID:22833130](#),
[PMID:11596060](#), [PMID:21388963](#), [PMID:19502415](#), [PMID:10864957](#), [PMID:20203184](#),
[PMID:12357432](#), [PMID:21334323](#), [PMID:23077655](#), [PMID:21471154](#), [PMID:8124714](#),
[PMID:12121626](#), [PMID:15614781](#), [PMID:14638744](#), [PMID:8929535](#), [PMID:15464286](#),
[PMID:9890440](#), [PMID:14656152](#), [PMID:22318233](#), [PMID:22554084](#), [PMID:21689645](#),
[PMID:19924821](#), [PMID:9507132](#)

Antibody ID: AB_2314683

Vendor: DSHB

Catalog Number: 39.4D5

Record Creation Time: 20231110T042044+0000

Record Last Update: 20241115T061348+0000

Ratings and Alerts

No rating or validation information has been found for 39.4D5 antibody, deposited by Jessell, T.M. / Brenner-Morton, S. HHMI/Columbia University.

No alerts have been found for 39.4D5 antibody, deposited by Jessell, T.M. / Brenner-Morton, S. HHMI/Columbia University.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 153 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Lépine S, et al. (2024) Homozygous ALS-linked mutations in TARDBP/TDP-43 lead to hypoactivity and synaptic abnormalities in human iPSC-derived motor neurons. *iScience*, 27(3), 109166.

Camacho-Aguilar E, et al. (2024) Combinatorial interpretation of BMP and WNT controls the decision between primitive streak and extraembryonic fates. *Cell systems*, 15(5), 445.

Evans LMP, et al. (2024) Human iPSC-derived myelinating organoids and globoid cells to

study Krabbe disease. PloS one, 19(12), e0314858.

Ritesh KC, et al. (2024) Multimodal Hox5 activity generates motor neuron diversity. bioRxiv : the preprint server for biology.

Kc R, et al. (2024) Multimodal Hox5 activity generates motor neuron diversity. Communications biology, 7(1), 1166.

Hsu HC, et al. (2024) LncRNA Litchi is a regulator for harmonizing maturity and resilient functionality in spinal motor neurons. iScience, 27(3), 109207.

Katayama R, et al. (2024) Thalamic activity-dependent specification of sensory input neurons in the developing chick entopallium. The Journal of comparative neurology, 532(6), e25627.

Mehta K, et al. (2024) A cis-regulatory module underlies retinal ganglion cell genesis and axonogenesis. Cell reports, 43(6), 114291.

Fan Y, et al. (2023) hPSC-derived sacral neural crest enables rescue in a severe model of Hirschsprung's disease. Cell stem cell, 30(3), 264.

Álvarez Z, et al. (2023) Artificial extracellular matrix scaffolds of mobile molecules enhance maturation of human stem cell-derived neurons. Cell stem cell, 30(2), 219.

Fernandez A, et al. (2023) Intrinsic control of DRG sensory neuron diversification by Pten. bioRxiv : the preprint server for biology.

Thomasen PB, et al. (2023) SorCS2 binds progranulin to regulate motor neuron development. Cell reports, 42(11), 113333.

Vermeiren S, et al. (2023) Prdm12 represses the expression of the visceral neuron determinants Phox2a/b in developing somatosensory ganglia. iScience, 26(12), 108364.

Vagnozzi AN, et al. (2023) Catenin signaling controls phrenic motor neuron development and function during a narrow temporal window. Frontiers in neural circuits, 17, 1121049.

Pomaville MB, et al. (2023) Follicle-innervating A β -low threshold mechanoreceptive neurons form receptive fields through homotypic competition. Neural development, 18(1), 2.

Schmidt C, et al. (2023) Multi-chamber cardioids unravel human heart development and cardiac defects. Cell, 186(25), 5587.

Vagnozzi AN, et al. (2023) Catenin signaling controls phrenic motor neuron development and function during a narrow temporal window. bioRxiv : the preprint server for biology.

Muiños-Bühl A, et al. (2023) Long-Term SMN- and Ncald-ASO Combinatorial Therapy in SMA Mice and NCALD-ASO Treatment in hiPSC-Derived Motor Neurons Show Protective Effects. International journal of molecular sciences, 24(4).

Honzel E, et al. (2023) Temporal Expression of Hox Genes and Phox2b in the Rat Nucleus

Ambiguous During Development: Implications on Laryngeal Innervation. *The Laryngoscope*, 133(12), 3462.

Lozano D, et al. (2023) Distribution of the transcription factor islet-1 in the central nervous system of nonteleost actinopterygian fish: Relationship with cholinergic and catecholaminergic systems. *The Journal of comparative neurology*.