Resource Summary Report

Generated by PRECISE-TBI on Jul 30, 2026

Allen Software Development Kit

RRID:SCR_018183
Type: Tool

Proper Citation

Allen Software Development Kit (RRID:SCR_018183)

Resource Information

URL: https://github.com/AllenInstitute/AllenSDK

Proper Citation: Allen Software Development Kit (RRID:SCR_018183)

Description: Software tool as code for processing and analyzing data in Allen Brain Atlas. Source code for reading and processing Allen Brain Atlas data. Allen SDK focuses on Allen Brain Observatory, Cell Types Database, and Mouse Brain Connectivity Atlas.

Abbreviations: AllenSDK

Resource Type: software application, software resource, data analysis software, data processing software

Keywords: Data analysis, data processing, Allen Brain Atlas, data, brain

Availability: Free, Freely available

Resource Name: Allen Software Development Kit

Resource ID: SCR_018183

Alternate IDs: SCR_018192

Alternate URLs: https://allensdk.readthedocs.io/en/latest/

License: Allen Institute Software License

Record Creation Time: 20220129T080339+0000

Record Last Update: 20260729T044451+0000

Ratings and Alerts

No rating or validation information has been found for Allen Software Development Kit.

No alerts have been found for Allen Software Development Kit.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Kauvar I, et al. (2025) Conserved brain-wide emergence of emotional response from sensory experience in humans and mice. Science (New York, N.Y.), 388(6750), eadt3971.

Bernaerts Y, et al. (2025) Combined statistical-biophysical modeling links ion channel genes to physiology of cortical neuron types. bioRxiv : the preprint server for biology.

Ma Z, et al. (2025) Induction of more severe central sensitization in a medication overuse headache model mice through active ingestion of rizatriptan. The journal of headache and pain, 26(1), 123.

Raut RV, et al. (2025) Arousal as a universal embedding for spatiotemporal brain dynamics. Nature, 647(8089), 454.

Vafaii H, et al. (2024) Multimodal measures of spontaneous brain activity reveal both common and divergent patterns of cortical functional organization. Nature communications, 15(1), 229.

Gillon CJ, et al. (2024) Responses to Pattern-Violating Visual Stimuli Evolve Differently Over Days in Somata and Distal Apical Dendrites. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(5).

Timonidis N, et al. (2024) Analyzing Thalamocortical Tract-Tracing Experiments in a Common Reference Space. Neuroinformatics, 22(1), 23.

Ratliff JM, et al. (2024) Neocortical long-range inhibition promotes cortical synchrony and sleep. bioRxiv : the preprint server for biology.

Ophir O, et al. (2024) Classifying Neuronal Cell Types Based on Shared Electrophysiological Information from Humans and Mice. Neuroinformatics, 22(4), 473.

Ruffini N, et al. (2024) ViNe-Seg: deep-learning-assisted segmentation of visible neurons and subsequent analysis embedded in a graphical user interface. Bioinformatics (Oxford, England), 40(4).

Farrell JS, et al. (2024) Neural and behavioural state switching during hippocampal dentate spikes. Nature.

Pierré A, et al. (2024) A Perspective on Neuroscience Data Standardization with Neurodata Without Borders. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(38).

Richman EB, et al. (2023) Neural landscape diffusion resolves conflicts between needs across time. Nature, 623(7987), 571.

Sorensen SA, et al. (2023) Connecting single-cell transcriptomes to projectomes in mouse visual cortex. bioRxiv : the preprint server for biology.

Roussel Y, et al. (2023) Mapping of morpho-electric features to molecular identity of cortical inhibitory neurons. PLoS computational biology, 19(1), e1010058.

Gillon CJ, et al. (2023) Responses of pyramidal cell somata and apical dendrites in mouse visual cortex over multiple days. Scientific data, 10(1), 287.

Nayebi A, et al. (2023) Mouse visual cortex as a limited resource system that self-learns an ecologically-general representation. PLoS computational biology, 19(10), e1011506.

de Vries SEJ, et al. (2023) Sharing neurophysiology data from the Allen Brain Observatory. eLife, 12.

Raut RV, et al. (2023) Arousal as a universal embedding for spatiotemporal brain dynamics. bioRxiv : the preprint server for biology.

Mayner WGP, et al. (2022) Measuring Stimulus-Evoked Neurophysiological Differentiation in Distinct Populations of Neurons in Mouse Visual Cortex. eNeuro, 9(1).