

# **BioYou® Nuclei Isolation Kit**



This kit is designed for isolating high-purity single nuclei from animal tissues. Tissues release intact nuclei through tissue homogenization, lysis of cell membranes and other procedures, while maintaining nuclear membrane stability and chromatin spatial structure. Optimized density gradient centrifugation or column-based techniques further remove cellular debris and other impurities, meeting the quality requirements for nuclei in downstream applications such as Single-cell Omics and Epigenetics. This product overcomes the limitations of traditional enzymatic digestion methods that rely on sample viability, making it widely applicable to both fresh and fresh frozen tissues, while remaining compatible with low-input samples (<10 mg). Featuring a streamlined workflow, this product delivers a standardized solution for complex biological samples.

## Product List

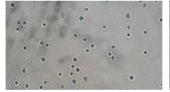
Catalog number	Kit Name	Sizes
52009-10	Bioyou <sup>®</sup> Nuclei Isolation Kit	10 rxns
52201-10	Bioyou <sup>®</sup> Nuclei Isolation Kit (Column)	10 rxns

Note: This product is for research use only.

### Applications

The single-nuclei suspensions can be used for nuclear transcriptomics (e.g., snRNA-seq/bulk RNA-seq) and epigenetics (e.g., scATAC-seq/bulk ATAC-seq, CUT&Tag) research etc.

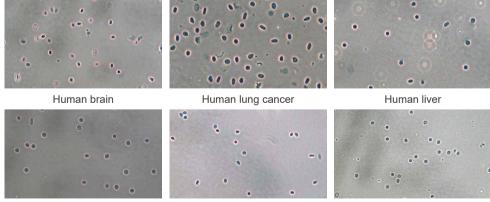
#### **Comparison with Competing Products**



BioYou® Nuclei Isolation Kit

Competitor's Nuclei Isolation Kit

# Nuclei Isolated from Different Tissues



Mouse brain

Mouse lung





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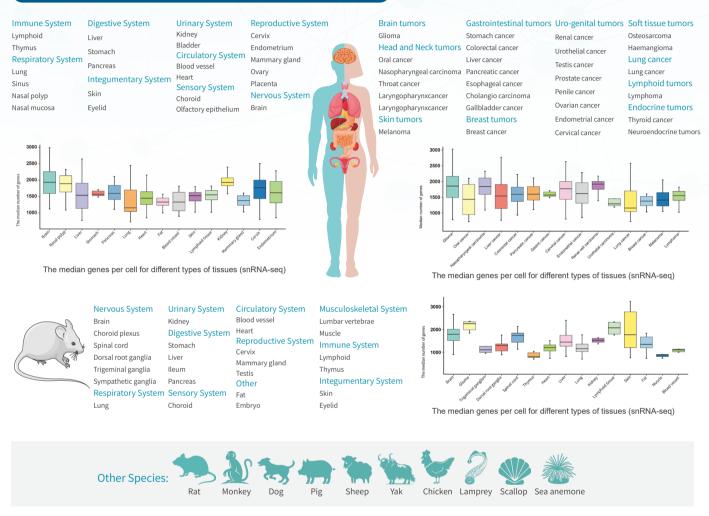
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#### **Application Examples**

This kit has been successfully applied to nuclei isolation from nearly 20 species, including humans, mice, rats, and invertebrates such as scallops and sea anemones. It is compatible with over 200 tissue types, including brain, liver, heart, lung, kidney, spleen and various tumors, with more than 20,000 samples processed to date. It provides a stable and reliable solution for single-nucleus RNA sequencing.

## Tissue Types Validated by Single-nucleus RNA Sequencing



## Publications

The product has been cited in 36 high-impact research papers published in international journals, with an average impact factor (IF) exceeding 8.3. Selected application papers include:

1.Zhang L, Ma J, Zhang J, et al. Radiotherapy-Associated Cellular Senescence and EMT Alterations Contribute to Distinct Disease Relapse Patterns in Locally Advanced Cervical Cancer. Adv Sci (Weinh). Published online February 4, 2025. (IF: 14.3)

2.Ji J, Ding K, Cheng B, et al. Radiotherapy-Induced Astrocyte Senescence Promotes an Immunosuppressive Microenvironment in Glioblastoma to Facilitate Tumor Regrowth. Adv Sci (Weinh). 2024;11(15):e2304609. (IF: 14.3)

3.Lv D, Liu A, Yi Z, et al. Neuroligin 1 Regulates Autistic-Like Repetitive Behavior through Modulating the Activity of Striatal D2 Receptor-Expressing Medium Spiny Neurons. Adv Sci (Weinh). 2025;12(5):e2410728. (IF: 14.3)

4.Sun W, Zhu Y, Zou Z, et al. An advanced comprehensive muti-cell-type-specific model for predicting anti-PD-1 therapeutic effect in melanoma. Theranostics. 2024;14(5):2127-2150. Published 2024 Mar 3. (IF: 12.4)



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