

Resource Summary Report

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Midbody, Centrosome and Kinetochore

RRID:SCR_007052

Type: Tool

Proper Citation

Midbody, Centrosome and Kinetochore (RRID:SCR_007052)

Resource Information

URL: <http://microkit.biocuckoo.org/>

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Description: MiCroKit database is the first integrative resource to pin point most of identified components and related scientific information of midbody, centrosome and kinetochore. In this work, we have collected all proteins identified to be localized on kinetochore, centrosome, and/or midbody from two fungi (*S. cerevisiae* and *S. pombe*) and five animals, including *C. elegans*, *D. melanogaster*, *X. laevis*, *M. musculus* and *H. sapiens*. From the related literature of PubMed, numerous proteins have been manually curated to be localized on at least one of the sub-cellular localizations of kinetochore, centrosome and midbody. And to promise the quality of data, based on the rationale of Seeing is believing (Bloom K et al., 2005), these proteins have been unambiguously observed under fluorescent microscope as directly supportive evidences. Then an integrated and searchable database MiCroKit - Midbody, Centrosome and Kinetochore has been established. The version 1.0 of MiCroKit database was set up on Nov. 2nd, 2005, containing 1,065 unique proteins. The MiCroKit version 2.0 was released on Jun. 5th, 2006, with 1,120 entries. Currently, the MiCroKit 3.0 database was updated on July 9, 2009, containing 1,489 unique protein entries. The online service of MiCroKit 3.0 was implemented in PHP + MySQL + JavaScript. And the local packages of MiCroKit 3.0 were developed in JAVA 1.5 (J2SE). The database will be updated routinely as new microkit proteins are reported.

Abbreviations: MiCroKit

Synonyms: MiCroKit - An Integrated Database of Midbody Centrosome and Kinetochore, MiCroKit - An Integrated Database of Midbody Centrosome Kinetochore, MiCroKit database, MiCroKit - Midbody Centrosome and Kinetochore, MiCroKit - Midbody Centrosome Kinetochore

Resource Type: data or information resource, database

Defining Citation: [PMID:19783819](#)

Keywords: bio.tools

Resource Name: Midbody, Centrosome and Kinetochore

Resource ID: SCR_007052

Alternate IDs: r3d100010550, nif-0000-03126, biotools:microkit

Alternate URLs: <https://bio.tools/microkit>, <https://doi.org/10.17616/R32P6K>

Old URLs: <http://bioinformatics.lcd-ustc.org/microkit/>

Record Creation Time: 20220129T080239+0000

Record Last Update: 20260905T133138+0000

Ratings and Alerts

No rating or validation information has been found for Midbody, Centrosome and Kinetochore.

No alerts have been found for Midbody, Centrosome and Kinetochore.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Zhao Z, et al. (2026) Integrative machine learning of hypoxia and centrosome-related gene signatures enables prognostic stratification and therapeutic insights in lung adenocarcinoma. Translational cancer research, 15(1), 40.

Basmenj ER, et al. (2025) Computational epitope-based vaccine design with bioinformatics approach; a review. Heliyon, 11(1), e41714.

Yu X, et al. (2024) A centrosome-related gene signature for predicting the overall survival of uveal melanoma. Translational cancer research, 13(2), 771.

Brock K, et al. (2024) A comparative analysis of paxillin and Hic-5 proximity interactomes. Cytoskeleton (Hoboken, N.J.).

Rai A, et al. (2021) Secreted midbody remnants are a class of extracellular vesicles molecularly distinct from exosomes and microparticles. Communications biology, 4(1), 400.

Ito KK, et al. (2020) The Emerging Role of ncRNAs and RNA-Binding Proteins in Mitotic Apparatus Formation. *Non-coding RNA*, 6(1).

Ghaleb A, et al. (2020) Mutant p53 drives the loss of heterozygosity by the upregulation of Nek2 in breast cancer cells. *Breast cancer research : BCR*, 22(1), 133.

Li Y, et al. (2019) Proteomics Links Ubiquitin Chain Topology Change to Transcription Factor Activation. *Molecular cell*, 76(1), 126.

Freixo F, et al. (2018) NEK7 regulates dendrite morphogenesis in neurons via Eg5-dependent microtubule stabilization. *Nature communications*, 9(1), 2330.

Braun DM, et al. (2018) TelNet - a database for human and yeast genes involved in telomere maintenance. *BMC genetics*, 19(1), 32.

Di Francesco L, et al. (2018) Visualization of human karyopherin beta-1/importin beta-1 interactions with protein partners in mitotic cells by co-immunoprecipitation and proximity ligation assays. *Scientific reports*, 8(1), 1850.

Huang Z, et al. (2015) MiCroKiTS 4.0: a database of midbody, centrosome, kinetochore, telomere and spindle. *Nucleic acids research*, 43(Database issue), D328.

Zheng Y, et al. (2014) An integrated overview of spatiotemporal organization and regulation in mitosis in terms of the proteins in the functional supercomplexes. *Frontiers in microbiology*, 5, 573.