

Nucleus /(plural: nuclei)

The brain of cell

Double membranous organelle

Location

In animal cell , present in the center

In plant cell , present in the periphery of cell due to presence of a large vacuole.

Absent in prokaryotic cells.

Only present in eukaryotic cells.

Structure

Nuclear envelope

Double membrane of nucleus is called nuclear envelope/nuclear membrane
Separate the nucleoplasm and cytoplasm.

Nuclear pores

Pores present in the nuclear envelope are called nuclear pores.

Allow the movement of materials .

Nucleolus/ (plural : nucleoli)

Non-membranous organelle.

Dark region of nucleus

Factory of rRNA

Factory of ribosomes.

Chromatin material

Thread like structures.

Made up of DNA and protein

Visible during non-dividing stage of cell (interphase)

Chromosomes

Specialized structures.

Visible during dividing stage of cell

Condensed form of chromatin material

Note... Chromatin material or chromosomes which are present in prokaryotic cells are made up of only DNA.

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